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ACADEMIC CATALOG

2026-27

Physical Sciences, Life Science & Social Sciences & Social Science

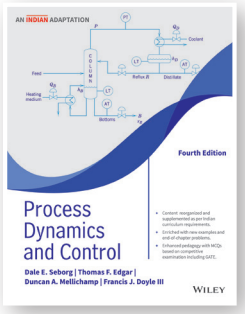
The complete academic list — textbooks, references and digital learning for the classroom and beyond.

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CHEMISTRY



Process Dynamics and Control, 4ed An Indian Adaptation | e | IM

Dale E. Seborg, Thomas F. Edgar, Duncan A. Mellichamp, and Francis J. Doyle III

ABOUT THE AUTHOR

"Dale E. Seborg is a Professor Emeritus and Research Professor in the Department of Chemical Engineering at the University of California, Santa Barbara.

Dr. Seborg has published over 230 articles and coedited three books on process control and related topics. He has received the American Statistical Association's Statistics in Chemistry Award, the American Automatic Control Council's Education Award, and the ASEE Meriam-Wiley Award.

Thomas F. Edgar holds the Abell Chair in chemical engineering at the University of Texas at Austin and is Director of the UT Energy Institute. His professional honors include the AIChE Colburn and Lewis Awards, ASEE Meriam-Wiley and

Chemical Engineering Division Awards, ISA and AACC Education Awards, AACC Bellman Control Heritage Award, and AIChE Computing in Chemical Engineering Award.

Duncan A. Mellichamp is a founding faculty member of the Department of Chemical Engineering of the University of California, Santa Barbara. He is editor of an early book on data acquisition and control computing and has published more than 100 papers on process modeling, large scale/plantwide systems analysis, and computer control.

Francis J. Doyle III is the Dean of the Harvard Paulson School of Engineering and Applied Sciences. He is also the John A. & Elizabeth S. Armstrong Professor of Engineering & Applied Sciences at Harvard University. Dr. Doyle held faculty appointments at Purdue University, the University of Delaware, and UCSB. He also held visiting positions at DuPont, Weyerhaeuser, and Stuttgart University. He is a Fellow of IEEE, IFAC, AAAS, and AIMBE

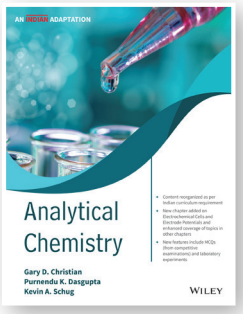
ABOUT THE BOOK

This Indian adaptation of the fourth edition of the book, builds on the conceptual strength of the previous editions, with the focus on addition and reorganization of topics to make it a better-fit textbook for Indian Universities. It offers new and updated material on basic and advanced process control, particularly related to MATLAB® applications. Useful new key features are presentation of the entire text including solved examples and exercise problems in SI units and extensive use of MATLAB®/Simulink® to supplement standard hand-solved examples.

TABLE OF CONTENTS

• Introduction to Process Control • Dynamic Behavior of Processes • Classical Feedforward Control • Advanced Process Control

9789354248429 | Pages: 700 | ₹ 1089



Analytical Chemistry, An Indian Adaptation | e | IM

Gary D. Christian, Purnendu K. Dasgupta, Kevin A. Schug

ABOUT THE AUTHOR

Gary Christian began his career at Walter Reed Army Institute of Research, where he developed an interest in clinical and bioanalytical chemistry. He joined the University of Kentucky in 1967, and in 1972 moved to the University of Washington, where he is Emeritus Professor, and Divisional Dean of Sciences Emeritus.

Purnendu K. (Sandy) Dasgupta a brief stint as a researcher at the Indian Association for the Cultivation of Science (where Raman made his celebrated discovery), he came as a graduate student to Louisiana State University at Baton Rouge in 1973. Sandy received his PhD in Analytical Chemistry with a minor in Electrical Engineering from LSU in 1977.

Kevin Schug following two years as a post-doctoral fellow with Professor Wolfgang Lindner at the University of Vienna (Austria), he joined the faculty in the Department of Chemistry & Biochemistry at The University of Texas at Arlington in 2005, where he is currently the Shimadzu Distinguished Professor of Analytical Chemistry.

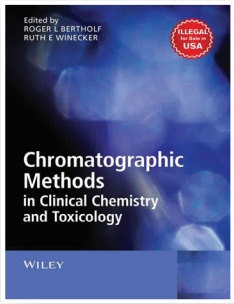
ABOUT THE BOOK

This Indian adapted edition is restructured, offering new and updated material and focuses on more in-depth coverage of the principles and techniques of instrumental analysis. It includes two new chapters dedicated to Mass Spectroscopy and Thermal Methods of Analysis. Chapters on Extraction Methods, Spectrochemical, Atomic Spectrometric Methods, and Liquid Chromatography and Electrophoresis have been completely updated with current developments. The content has also been reorganized to align it better with the curriculum requirements. New pedagogical features introduced are Spreadsheet Problems,

TABLE OF CONTENTS

• Analytical Objectives, or: What Analytical Chemists Do • Analytical Chemistry: Basic Tools and Operations • Analytical Chemistry: Statistics and Data Handling • Stoichiometric Calculations: The Workhorse of the Analyst • General Concepts of Chemical Equilibrium • Acid–Base Equilibria • Acid–Base Titrations • Complexometric Reactions and Titrations • Gravimetric Analysis and Precipitation Equilibria • Precipitation Reactions and Titration • Spectrochemical Methods • Atomic Spectrometric Methods • Sample Preparation: Solvent and Solid-Phase Extraction • Chromatography: Principles and Theory • Gas Chromatography • Liquid Chromatography and Electrophoresis • Mass Spectrometry • Thermal Methods of Analysis: Principles and Applications • Electrochemical Cells and Electrode Potentials • Potentiometric Electrodes and Potentiometry • Redox and Potentiometric Titrations • Voltammetry and Electrochemical Sensors • Kinetic Methods of Analysis • Automation in Measurements • Environmental Sampling and Analysis

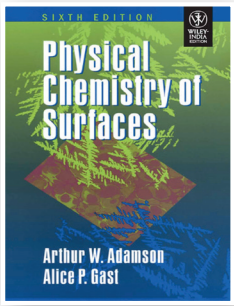
9789388991094 | Pages: 960 | ₹ 1259



Chromatographic Methods in Clinical Chemistry and Toxicology | e

Roger Bertholf, Ruth Winecker

9789370602984 | Pages: 308 | (Exclusive)



Physical Chemistry of Surfaces, 6ed | e

Arthur W. Adamson, Alice P. Gast

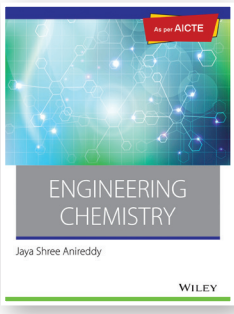
ABOUT THE AUTHOR

Arthur W. Adamson is Distinguished Professor Emeritus at the Department of Chemistry, University of Southern California, Los Angeles. ALICE P. GAST is Professor of Chemical Engineering at Stanford University.

ABOUT THE BOOK

Bridging the methodologies of "wet" and "dry" surface chemistry to present surface chemistry as a single broad field, Physical Chemistry of Surfaces, Sixth Edition retains its position as the standard work of surface science. This heavily revised and updated edition begins with the basics of the physical chemistry of liquid-gas and liquid-solid interfaces, including electro-chemistry, long-range forces, and the various methods of spectroscopic and structural study of surfaces. These are followed by descriptive treatments of topics such as friction, lubrication, adhesion and emulsion, foams, and aerosols. Closing chapters present a quantitative approach to physical and chemical adsorption of vapors and gases as well as heterogeneous catalysis.

9788126534173 | Pages: 308 | (Exclusive)



Engineering Chemistry, As per AICTE | e

Jaya Shree Anireddy

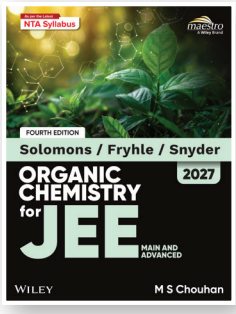
ABOUT THE BOOK

The objective of Engineering Chemistry is to build a solid foundation in fundamentals of chemistry and an interface of theoretical concepts with their industrial/engineering applications. This book is designed as an introductory course in Engineering Chemistry with complete coverage as per new AICTE curriculum. It aims to impart students an in-depth knowledge of various aspects of chemistry as applied to engineering. The content has been compiled after detailed analysis of the latest AICTE syllabus. The lucid explanation of the topics will help students understand the fundamental concepts and apply them to solve the problems. An attempt has been made to logically correlate topics with their applications.

TABLE OF CONTENTS

• Atomic and Molecular Structure • Periodic Properties of Elements • Intermolecular Forces and Potential Energy Surfaces • Thermodynamics • Corrosion • Water Technology • Reaction Mechanism and Synthesis of Drug Molecules • Stereochemistry Learning Objectives • Spectroscopy Learning Objectives

9788126504473 | Pages: 608 | ₹ 850



Wiley's Solomons, Fryhle & Snyder Organic Chemistry for JEE (Main & Advanced), 4ed, 2027

T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, M S Chouhan

ABOUT THE AUTHOR

M.S. Chouhan is the Director and HOD (Organic Chemistry) of Vibrant Academy at Kota, Rajasthan. His earlier designations include Senior Faculty (Organic Chemistry) for Bansal Classes at Kota, Rajasthan. He had earned his graduate and postgraduate degrees in Chemistry from Mumbai University. Apart from these he also has a Diploma in Biotechnology.

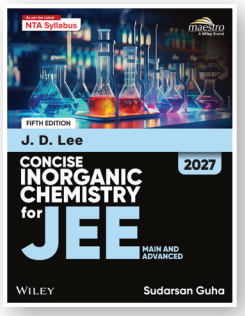
ABOUT THE BOOK

This adapted version of one of the world's most well-known books on Organic Chemistry combines the Solomons, Fryhle and Synder approach to Organic Chemistry with engineering entrance examinations requirements. The book has been reorganized based on the challenges faced by the students preparing for engineering entrance in terms of practice problems and clarity of theories. The relevance to exams is enhanced by elaborating concepts related to the syllabus, removing irrelevant topics and addition of specific problems at the end of each chapter.

TABLE OF CONTENTS

• A Chapter wise Comparative Analysis of JEE Advanced (2014–2025) Questions with • 1. The Basics: Bonding and Molecular Structure • 2. Families of Carbon Compounds: Functional Groups and Intermolecular Forces • 3. An Introduction to Organic Reactions and Their Mechanisms: Acids and Bases • 4. Stereochemistry: Chiral Molecules • 5. Nomenclature and Conformations of Alkanes and Cycloalkanes • 6. Ionic Reactions Nucleophilic Substitution and Elimination Reactions of Alkyl Halides • 7. Alkenes and Alkynes I Properties and Synthesis. Elimination Reactions of Alkyl Halides • 8. Alkenes and Alkynes II Addition Reactions • 9. Radical Reactions • 10. Alcohols and Ethers Synthesis and Reactions • 11. Alcohols from Carbonyl Compounds • 12. Conjugated Unsaturated Systems • 13. Aromatic Compounds • 14. Reactions of Aromatic Compounds • 15. Aldehydes and Ketones I. Nucleophilic Addition to the Carbonyl Group • 16. Aldehydes and Ketones II. Aldol Reactions • 17. Carboxylic Acids and Their Derivatives • 18. Amines • 19. Phenols and Aryl Halides • 20. Carbohydrates • 21. Amino Acids and Proteins • 22. Carbene and Carbenoids • 23. Reactions of Nitrene and Electron Deficient Oxygen • Appendix A: Answers to Selected Problems • JEE Main 2026 Questions with Solutions

9789377064846 | Pages: 974 | ₹ 1169



Wiley's J.D. Lee Concise Inorganic Chemistry for JEE (Main & Advanced), 5ed, 2027

J. D. Lee, Sudarsan Guha

ABOUT THE AUTHOR

John Lee was a Senior Lecturer in the Department of Chemistry at Loughborough University, Leicestershire, UK and has authored many books and journal articles.

Sudarsan Guha is a respected teacher of Inorganic Chemistry and currently teaches at Allen Career Institute, Kota, which is a prestigious coaching academy for engineering aspirants. He was earlier associated with Bansal classes in Kota. He has B.Sc. in Chemistry from Belur Ramakrishna Mission College, B. Tech in Ceramic Engineering from Calcutta University and M. Tech from IIT Kanpur. He has been teaching Chemistry for the past 14 years to the students preparing for the engineering entrances.

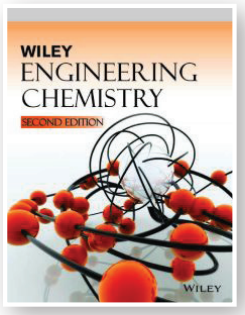
ABOUT THE BOOK

The book is an adaptation of the classic book Concise Inorganic Chemistry by J.D. Lee (Fifth Edition), which is widely used by students preparing for JEE. This adapted version provides a more concise and relevant treatment of Inorganic Chemistry as per JEE syllabus requirements. The concepts are explained in a simple and straightforward manner. Yet the book provides a thorough grounding of the subject, helping students approach the examination with confidence.

TABLE OF CONTENTS

• A Chapter wise Comparative Analysis of JEE Advanced (2014–2025) • 1. Structure of an Atom • 2. Periodic Table and Periodic Properties • 3. Chemical Bonding • 4. Hydrolysis • 5. Coordination Compounds • 6. Metallurgy • 7. Qualitative Salt Analysis • 8. Hydrogen and the Hydrides • 9. The s-Block Elements and their Compounds • 10. The p-Block Elements and their Compounds • 11. The d-Block Elements and some of their Compounds • 12. The f-Block Elements and their Properties • 13. Environmental Chemistry • JEE Main 2026 Questions with Solutions

9789377067045 | Pages: 698 | ₹ 1169



Engineering Chemistry, 2ed | e | IM

ABOUT THE BOOK

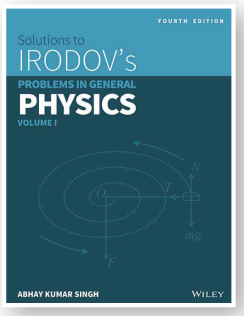
This book is an enriched and updated second edition of our well-received and successful title, Engineering Chemistry. In this edition, an attempt has been made to include topics on emerging research areas, such as nanotechnology and biotechnology and introduce students to green chemistry techniques that help circumvent environmental concerns.

TABLE OF CONTENTS

• Chemical Bonding • Solid State and Liquid Crystals • Coordination Chemistry • Thermodynamics and Chemical Equilibrium • Chemical Kinetics • Phase Rule • Electrochemistry • Adsorption • Organic Reaction Mechanisms • Stereochemistry • Chemical Methods of Analysis • Instrumental Methods of Analysis • Polymers • Engineering Materials • Metals and Alloys • Fuels • Non-Conventional Energy Resources • Corrosion and its Control • Water and its Treatment • Environment Study • Green Chemistry and its Applications • Nanochemistry • Biotechnology

9788126543205 | Pages: 1060 | ₹ 999

PHYSICS



Wiley's Solutions to Irodov's Problems in General Physics, Vol 1, 4ed | e

Abhay Kumar Singh

ABOUT THE AUTHOR

Mr. Abhay Kumar Singh is the Founder / Director of Abhay's IIT Physics Teaching Centre, Patna and has had a teaching career spanning nearly two decades. His specialty is physics concepts and problem-solving, which are the two most essential parts of preparation for an JEE (Mains & Advanced) aspirant. Although, Mr. Abhay Kumar Singh, studied both Physics and Statistics up to the postgraduate level, he chose Physics as his area of expertise due to his interest and an aptitude for the subject. He started his career as a teacher in June, 1984, guiding the IIT-JEE aspirants. His teaching methods have always been innovative and intellectual, helping the students in understanding the concepts and developing a genuine liking for the subject in the long run.

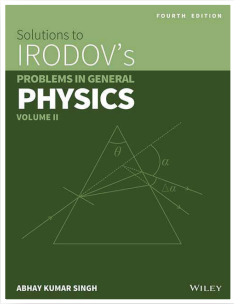
ABOUT THE BOOK

Irodov's problems are considered the most complex and comprehensive set of problems in terms of concept testing the world over. In fact, some problems combine multiple concepts of physics, which makes these problems unique. Solutions to IRODOV'S problems in General Physics, available in two volumes are meant for those dedicated physics students who face the challenge of solving numerical problems, particularly JEE (Mains & Advanced). The two volumes provide the complete solutions for each of the 1878 problems in I.E. IRODOV's problems in General Physics. The solutions presented in this book are crisp, and guaranteed to make you think beyond the box. This book is exactly what you need to establish a strong foundation for discovering the beauty of physics and cracking any entrance exam in India.

TABLE OF CONTENTS

• Preface to the Fourth Edition • Preface to the First Edition • About the Author • Foreword • Part One: Physical Fundamentals of Mechanics • Part Two: Thermodynamics and Molecular Physics • Part Three: Electrodynamics

9788126551187 | Pages: 424 | ₹ 802



Wiley's Solutions to Irodov's Problems in General Physics, Vol II, 4ed | e

Abhay Kumar Singh

ABOUT THE AUTHOR

Mr. Abhay Kumar Singh is the Founder / Director of Abhay's IIT Physics Teaching Centre, Patna and has had a teaching career spanning nearly two decades. His specialty is physics concepts and problem-solving, which are the two most essential parts of preparation for an JEE (Mains & Advanced) aspirant. His teaching methods have always been innovative and intellectual, helping the students in understanding the concepts and developing a genuine liking for the subject in the long run.

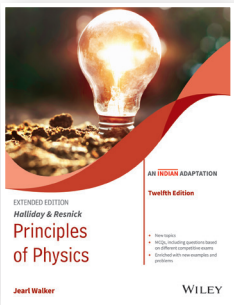
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• Part Four Oscillations and Waves • Part Five Optics • Part Six Atomic and Nuclear Physics

9788126551194 | Pages: 356 | ₹ 666



Halliday & Resnick Principles of Physics, Extended, 12ed (An Indian Adaptation) | e | IM

David Halliday, Robert Resnick, Jearl Walker

ABOUT THE AUTHOR

David Halliday was an American physicist known for his physics textbooks, Physics and Fundamentals of Physics, which he co-wrote with Robert Resnick. Both textbooks have been in continuous use since 1960 and are available in more than 47 languages.

Robert Resnick was a physics educator and author of physics textbooks.

Jearl Walker is a professor of physics at Cleveland State University. He received his BS in physics from MIT in 1967 and his PhD in physics from University of Maryland in 1973. His book The Flying Circus of Physics has been translated into at least 10 languages. The second edition was published in 2006 and is still being translated into other languages.

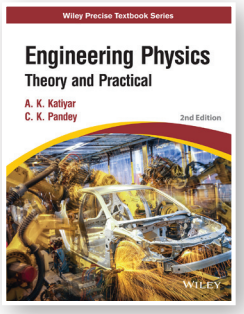
ABOUT THE BOOK

This Indian Adaptation of the twelfth edition is built to be a learning center with practice opportunities, animations, and videos. Numerous practice and assessment questions are available to ensure that students understand the problem-solving processes behind key concepts and understand their mistakes while working through problems. In addition, this edition includes multiple-choice questions based on the questions from competitive examinations.

TABLE OF CONTENTS

• Measurement • Motion Along a Straight Line • Vectors • Motion in Two and Three Dimensions • Force and Motion—I • Force and Motion—II • Kinetic Energy and Work • Potential Energy and Conservation of Energy • Center of Mass and Linear Momentum • Rotation • Rolling, Torque, and Angular Momentum • Equilibrium and Elasticity • Gravitation • Oscillations • Waves—I • Waves—II • Temperature, Heat, and the First Law of Thermodynamics • The Kinetic Theory of Gases • Entropy and the Second Law of Thermodynamics • Coulomb's Law • Electric Fields • The Electric Field • Gauss' Law • Electric Potential • Capacitance • Current and Resistance • Circuits • Magnetic Fields • Magnetic Fields Due to Currents • Induction and Inductance • Electromagnetic Oscillations and Alternating Current • Maxwell's Equations; Magnetism of Matter • Electromagnetic Waves • Images • Interference • Relativity • Photons and Matter Waves • More About Matter Waves • All About Atoms • Conduction of Electricity in Solids • Nuclear Physics • Energy from the Nucleus • Quarks, Leptons, and the Big Bang

9789357460835 | Pages: 1456 | ₹ 1225



Engineering Physics: Theory and Practical, 2ed | e

A.K. Katiyar, C.K. Pandey

ABOUT THE AUTHOR

Dr. A. K. Katiyar is Professor in Department of Applied Sciences, Institute of Engineering & Technology, Lucknow. He has many years of teaching and research experience in various engineering institutes. He has published more than 40 research papers in different reputed International and National journals/conferences and attended various International and National conferences.

Dr. C. K. Pandey is teaching and research experience spans nine years. He has published 30 research papers of which 23 are in reputed International and national Journals in the field of energy. He is also a referee of various reputed International journals.

ABOUT THE BOOK

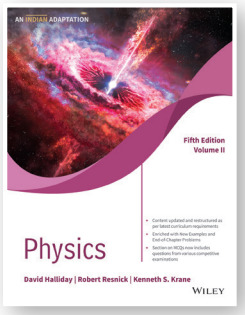
This book has been written to serve as a text for revised syllabus of Engineering Physics-I (NAS-101), Engineering Physics-II (NAS-201) and Practical (NAS-151/251) of Uttar Pradesh Technical University (UPTU), Lucknow. The requirements of the students have been fulfilled by explaining the basic principles and applications of Engineering Physics in a simple, lucid and systematic manner. Extensive care has also been taken in such a manner that the beginners will also grasp and understand the complex ideas easily with appropriate examples, neatly drawn diagrams, tables wherever required, etc. The accompanying LAB MANUAL provides detailed

theory, method, observation table and question and answer for viva-voce. It provides complete information on all experiments prescribed as per UPTU syllabus.

TABLE OF CONTENTS

• Relativistic Mechanics • Wave Mechanics • Wave Optics: Interference • Diffraction of Light • Polarization of Light • Laser • Fiber Optics and Holography • Crystal Structure • Dielectrics • Magnetic Properties of Materials • Electromagnetics • Band Theory of Solids • Superconductivity • Nanotechnology

9788126570157 | Pages: 820 | ₹ 1499



Physics, Vol 2, 5ed, An Indian Adaptation | e | IM

David Halliday , Robert Resnick , Kenneth S. Krane

ABOUT THE AUTHOR

David Halliday was an American physicist known for his physics textbooks, Physics and Fundamentals of Physics, which he wrote with Robert Resnick. Both textbooks have been in continuous use since 1960 and are available in more than 47 languages.

Robert Resnick was a physics educator and author of physics textbooks. He was born in Baltimore, Maryland on January 11, 1923 and graduated from the Baltimore City College high school in 1939.

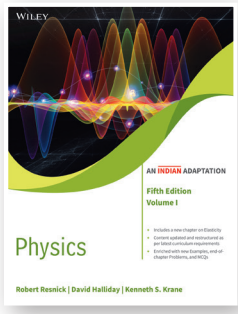
ABOUT THE BOOK

This Indian adaptation of the fifth edition of Physics Volume 2 builds in the conceptual strength and subject treatment of the original to provide the best-suited text for Indian students. It restructures topics at places and offers new content to align it completely to the Indian curriculum requirement. It is enriched with many new Sample problems that reinforce the application of concepts and provides a large number of end-of-chapter exercises to build problem-solving skills. Many questions from competitive examinations held in India have been included to make the book a useful resource for their preparation.

TABLE OF CONTENTS

• Electric Charge and Coulomb's Law • The Electric Field ·Gauss' Law • Electric Potential Energy and Potential • The Electrical Properties of Materials • Capacitance • DC Circuits • The Magnetic Field • The Magnetic Field of a Current • Faraday's Law of Induction • Magnetic Properties of Materials • Inductance • Alternating Current Circuits • Maxwell's Equations and Electromagnetic Waves • Light Waves • Mirrors and Lenses • Interference • Diffraction • Gratings and Spectra • Polarization • The Nature of Light • The Nature of Matter • Quantum Mechanics and Matter Waves • Atomic Structure • Electrical Conduction in Solids • Nuclear Physics • Energy from the Nucleus • Particle Physics and Cosmology

9789354640438 | ₹ 1099



Physics, Vol 1, 5ed (An Indian Adaptation) | e | IM

Robert Resnick, David Halliday, Kenneth S. Krane, Dr. Partha Goswami, Dr. Arijit Roy, Dr. Kaustuv Da

ABOUT THE AUTHOR

Robert Resnick was a physics educator and author of physics textbooks. He was born in Baltimore, Maryland on January 11, 1923 and graduated from the Baltimore City College high school in 1939. He received his B.A. in 1943 and his Ph.D. in 1949, both in physics from Johns Hopkins University.

David Halliday was an American physicist known for his physics textbooks, Physics and Fundamentals of Physics, which he wrote with Robert Resnick. Both textbooks have been in continuous use since 1960 and are available in more than 47 languages.

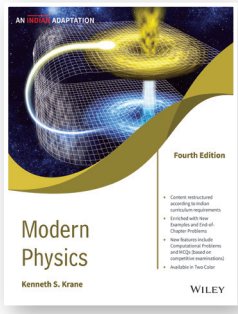
ABOUT THE BOOK

Physics by Resnick, Halliday and Krane, fifth edition, Volume 1, is a classic textbook that has over the past five decades, provided the standard for calculus-based university physics course for science and engineering students. The text strives to clarify conceptual development in light of recent findings of physics education research, without compromising on the level and the rigor of its content. This Indian adaptation of the fifth edition of Physics Volume 1 builds in the conceptual strength and subject treatment of the original to provide the best-suited text for Indian students.

TABLE OF CONTENTS

• Measurement • Motion in One Dimension • Force and Newton's Laws • Motion in Two and Three Dimensions • Applications of Newton's Laws • Momentum • Systems of Particles • Rotational Kinematics • Rotational Dynamics • Angular Momentum • Energy 1: Work and Kinetic Energy • Energy 2: Potential Energy • Energy 3: Conservation of Energy • Gravitation • Elasticity • Fluid Statics • Fluid Dynamics • Oscillations • Wave Motion • Sound Waves • The Special Theory of Relativity • Temperature and Heat • Molecular Properties of Gases • The First Law of Thermodynamics • Entropy and the Second Law of Thermodynamics

9789354640384 | Pages: 720 | ₹ 1099



Modern Physics, 4ed, An Indian Adaptation | e | IM

Kenneth S. Krane

ABOUT THE AUTHOR

This Indian Adaptation of the fourth edition of the book has been developed focusing on addition of new topics, and restructuring some of the existing concepts to make it a better-fit textbook for Indian Universities. The section on The Schrödinger Equation has been updated with more mathematical rigorous treatment. The section on Hydrogen Atom Wave Functions has been extended with detailed solutions of radial and angular parts of the Schrödinger equation through new solved Examples. The chapter on Solid State Physics now has extended discussion on Crystal Structures and Lattice Vibrations.

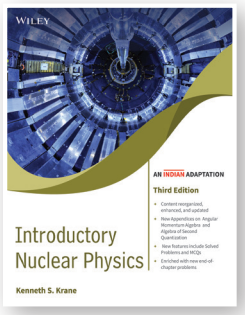
ABOUT THE BOOK

" The Failures of Classical Physics • The Special Theory of Relativity • The Particle-like Properties of Electromagnetic Radiation • The Wavelike Properties of Particles • The Rutherford-Bohr Model of the Atom • The Schrödinger Equation • The Hydrogen Atom in Wave Mechanics • Many-Electron Atoms • Molecular Structure • Statistical Physics • Solid-State Physics • Nuclear Reactions and Applications • Elementary Particles • Cosmology: The Origin and Fate of the Universe

TABLE OF CONTENTS

• Integrated-Circuit Devices and Modelling • Processing and

9789354244681 | Pages: 644 | ₹ 1099



Introductory Nuclear Physics, 3ed (An Indian Adaptation) | e

Kenneth S. Krane

ABOUT THE AUTHOR

Kenneth S. Krane is Professor of Physics at Oregon State University, where he has served on the faculty since 1974, including 14 years as Department Chair. His research involves nuclear structure and nuclear spectroscopy, and has led to more than 100 papers in refereed journals and 30 years of funding in experimental nuclear physics from NSF and DOE. He was selected to be a Fellow of the American Physical Society by the Division of Nuclear Physics. He is also involved in education research and curriculum development and has held numerous NSF grants supporting those activities.

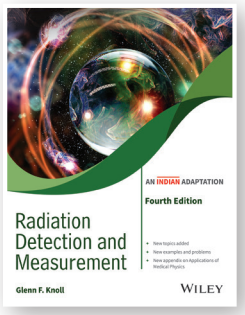
ABOUT THE BOOK

Krane's Introductory Nuclear Physics is a classic textbook for an introductory course for the subject, that has provided a solid foundation to undergraduate students for more than six decades. It has retained its popularity not only among physics majors but also for an introductory course by students of nuclear science and technology, nuclear chemistry, nuclear engineering, radiation biology and nuclear medicine. Structured into four units, it progressively covers nuclear sizes and shapes followed by decay and radioactivity; the third part provides a survey of nuclear reactions and their applications and part four deals with topics like particle physics, nuclear astrophysics and more.

TABLE OF CONTENTS

• Basic Nuclear Structure • Nuclear Decay And Radioactivity • Nuclear Reaction • Extensions And Applications

9789354640834 | Pages: 872 | (Exclusive)



Radiation Detection and Measurement, 4ed (An Indian Adaptation) | e | IM

Glenn F. Knoll, A.M. Vinodkumar, Jiban Jyoti Das, Ramakanta Naik, Ritesh Kshetri, Sunil Kalkal

ABOUT THE AUTHOR

Glenn Frederick Knoll is Professor of Nuclear Engineering and Radiological Sciences in the College of Engineering at the University of Michigan.

A.M. Vinodkumar Department of Physics University of Calicut, Kerala, India

Jiban Jyoti Das Department of Physics Cotton University, Assam, India

Ramakanta Naik Department of Engineering and Materials Physics ICT Mumbai, Indian Oil Odisha Campus, Odisha, India

Ritesh Kshetri Department of Physics The University of Burdwan, West Bengal, India

Sunil Kalkal School of Physics and Materials Science Thapar Institute of Engineering and Technology, Punjab, India

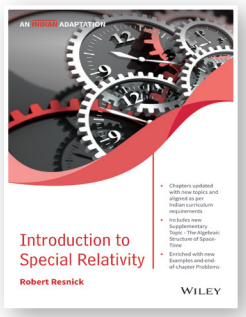
ABOUT THE BOOK

Radiation Detection and Measurement, fourth edition, is a classic textbook which provides the most up-to-date coverage of radiation detection and measurement. Focusing on the technical developments which continue to enhance the instruments and techniques available for the detection and spectroscopy of ionizing radiation, this edition covers many new materials being used as scintillators that can achieve energy resolution that is better by a factor of two compared with traditional materials.

TABLE OF CONTENTS

• Radiation Sources • Radiation Interactions • Counting Statistics and Error Prediction • General Properties of Radiation Detectors • Ionization Chambers • Proportional Counters • Geiger–Mueller Counters • Scintillation Detector Principles • Photomultiplier Tubes and Photodiodes • Radiation Spectroscopy with Scintillators • Semiconductor Diode Detectors • Germanium Gamma-Ray Detectors • Other Solid-State Detectors • Slow Neutron Detection Methods • Fast Neutron Detection and Spectroscopy • Pulse Processing • Pulse Shaping, Counting, and Timing • Multichannel Pulse Analysis • Miscellaneous Detector Types • Background and Detector Shielding

9789354644238 | Pages: 924 | (Exclusive)



Introduction to Special Relativity, An Indian Adaptation | e

Robert Resnick

ABOUT THE AUTHOR

Robert Resnick was a physics educator and author of physics textbooks. He was born in Baltimore, Maryland on January 11, 1923 and graduated from the Baltimore City College high school in 1939.

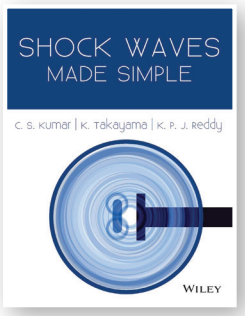
ABOUT THE BOOK

Introduction to Special Relativity is a classic text established for use in undergraduate and postgraduate physics courses. The content has a coherence of its own and can be used in multiple ways. It can form part of an introductory physics course to build upon the background in electromagnetism and optics or used in a modern physics course for developing foundations of relativity. In addition, it offers optional material of intrinsic interest as Supplementary Topics and other material of historical, advanced, or special nature as part of chapter text. Worked-out examples, thought-provoking questions and problems of varied levels of difficulty are the useful pedagogical aids.

TABLE OF CONTENTS

• The Experimental Background of the Theory of Special Relativity • Relativistic Kinematics • Relativistic Dynamics • Relativity and Electromagnetism

9789354244919 | Pages: 248 | ₹ 950



Shock Waves Made Simple | e

C.S. Kumar, K. Takayama, K.P.J. Reddy

ABOUT THE AUTHOR

Dr. Chintoo S Kumar earned his research degree recently from Indian Institute of Science, Bangalore for his work on aerothermodynamics and he is Master of Science from Massachusetts Institute of Technology, USA.

Prof. K. Takayama is the leading expert on shock waves trained by legendry person Prof. I I Glass, considered as father of Shock Wave physics from Toronto, Canada. Prof. Takayama established famous Advance Centre for Shock Wave Research at Tohoku University, Sendai, Japan which had sheltered majority of the shock wave researchers across the world.

Prof. K P J Reddy has been working the field of shock waves and their applications for over two decades and is instrumental in establishing strong shock wave research community in India. He has been the spirit behind the building of the famous Laboratory for Hypersonic and Shock Wave Research in the Department of Aerospace Engineering, IISc, Bangalore.

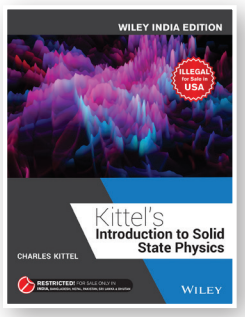
ABOUT THE BOOK

The book essentially presents the basic concepts of Shock Wave physics without using complex mathematical theories and attempts to explain the phenomenon of Shock Waves in terms of physical explanations. After laying the foundations for understanding the physics of Shock Wave phenomenon, the book describes the Reddy tube and the procedure for its calibration, ending with a brief description of its recently developed applications. Finally the book summarizes some of the recent applications of Shock Waves.

TABLE OF CONTENTS

• 1 Introduction • 2 Shock Waves • 3 Shock Tubes • 4 Shock Tunnels • 5 Unsteady Flows and Shock Waves • 6 Practical Applications of Shock Waves

9788126551415 | Pages: 120 | ₹ 643



Kittel's Introduction to Solid State Physics, Wiley India Edition | e

Charles Kittel

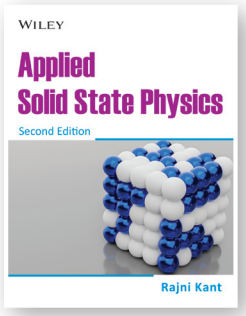
ABOUT THE BOOK

Introduction to Solid State Physics has been the standard solid state physics text for physics majors. The author's goal from the beginning has been to write a book that is accessible to undergraduate and consistently teachable. The emphasis in the book has always been on physics rather than formal mathematics. With each new edition, the author has attempted to add important new developments in the field without sacrificing the book's accessibility and teachability.

TABLE OF CONTENTS

• Crystal Structure. • Wave Diffraction And The Reciprocal Lattice. ·Crystal Binding And Elastic Constants • Phonons I. Crystal Vibrations. ·Phonons Ii. Thermal Properties. • Free Electron Fermi Gas. • Energy Bands. • Semiconductor Crystals. • Fermi Surfaces And Metals. • Superconductivity. • Diamagnetism And Paramagnetism. • Ferromagnetism And Antiferromagnetism • Magnetic Resonance. • Plasmons, Polaritons, And Polarons. • Optical Processes And Excitons. • Dielectrics And Ferroelectrics. • Surface And Interface Physics. • Nanostructures. • Noncrystalline Solids. • Point Defects. • Dislocations. • Alloys.

9788126578436 | Pages: 712 | ₹ 1019



Applied Solid State Physics, 2ed | e

Rajnikant

ABOUT THE AUTHOR

Rajni Kant Dean Science Faculty & Dean Research Studies University of Jammu, Jammu, India

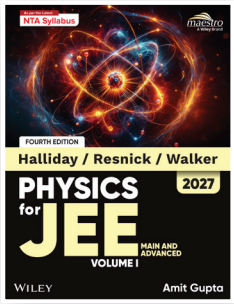
ABOUT THE BOOK

The book covers all major aspects of the science of crystals. The approach of the book is unique because it offers thought-provoking ideas about the Physics of Solids, rather than being merely a compilation of research data and statistical figures. The learning design has been presented in such a way that the students at the undergraduate and postgraduate levels, including the researchers in materials science, get an exposition of the fundamentals and the application potential of crystals' physics. The understanding of the basics is supplemented and supported by a strong mathematical basis and reasoning.

TABLE OF CONTENTS

• Crystals, Lattices and Symmetry • Bonding in Solids • X-rays: Concept, Properties and Reciprocal Lattice • Relating Atomic Structure to Some Physical Properties • Experimental X-ray Diffraction Techniques • Structure Factor and Fourier Synthesis • Techniques of X-ray Structure Determination • Crystal Imperfections: Their Classification and Characterization • Lattice Dynamics and Thermal Properties of Solids • An Introduction to Quantum Physics • The Fermi Surface and Fermi Gas • Electrons in Solids • The Band Theory of Solids • Magnetic Properties of Solids • Dielectric Properties • Semiconductors: Theory and Devices • Superconductivity

9789354643309 | Pages: 572 | ₹ 1039



Wiley's Halliday / Resnick / Walker Physics for JEE (Main & Advanced), Vol I, 4ed, 2027

Amit Gupta, David Halliday, Robert Resnick, Jearl Walker

ABOUT THE AUTHOR

David Halliday is associated with the University of Pittsburgh as Professor Emeritus. As department chair in 1960, he and Robert Resnick collaborated on Physics for Students of Science and Engineering and then on Fundamentals of Physics.
Robert Resnick is professor emeritus at Rensselaer and the former Edward P. Hamilton Distinguished Professor of Science Education, 1974-93.
Jearl Walker, professor of physics at Cleveland State University, received his BS in physics from MIT in 1967 and his PhD in physics from University of Maryland in 1973.
Amit Gupta is the Head of Department at BANSAL CLASSES, KOTA which is the most prestigious coaching academy for IIT-JEE aspirants. An IITian himself, he has been teaching Physics for over a decade to students preparing for the JEE.

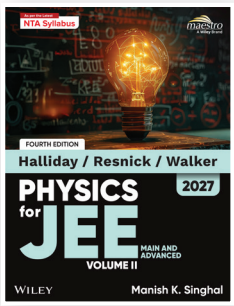
ABOUT THE BOOK

This adapted version of one of the world's most successful books on Physics combines the Halliday, Resnick and Walker's approach to Physics with JEE requirements. The book has been designed to help the students overcome the hurdles while preparing for JEE in terms of concepts and problem solving.

TABLE OF CONTENTS

• (2014–2024) Questions with Focus Topics • 1 Units and Measurement • 2 Motion Along a Straight Line • 3 Vectors • 4 Motion in Two and Three Dimensions • 5 Force and Motion – I • 6 Force and Motion – II • 7 Circular Motion • 8 Work, Power, and Energy • 9 Center of Mass • 10 Rigid Body Dynamics – I • 11 Rigid Body Dynamics – II • 12 Elasticity • 13 Gravitation • 14 Fluids • 15 Oscillations • 16 Waves – I • 17 Waves – II • 18 Temperature, Zeroth Law of Thermodynamics and Thermal Expansion • 19 Heat – Measurement and Transfer • 20 The Kinetic Theory of Gases • 21 The First Law of Thermodynamics

9789377067779 | Pages: 964 | ₹ 1169



Wiley's Halliday / Resnick / Walker Physics for JEE (Main & Advanced), Vol II, 4ed, 2027

Manish K. Singhal, David Halliday, Robert Resnick, Jearl Walker

ABOUT THE AUTHOR

David Halliday is associated with the University of Pittsburgh as Professor Emeritus. As department chair in 1960, he and Robert Resnick collaborated on Physics for Students of Science and Engineering and then on Fundamentals of Physics.
Robert Resnick is professor emeritus at Rensselaer and the former Edward P. Hamilton Distinguished Professor of Science Education, 1974-93.
Jearl Walker, professor of physics at Cleveland State University, received his BS in physics from MIT in 1967 and his PhD in physics from University of Maryland in 1973.
Manish K Singhal is currently teaching IIT aspirants at Kota as a senior faculty

ABOUT THE BOOK

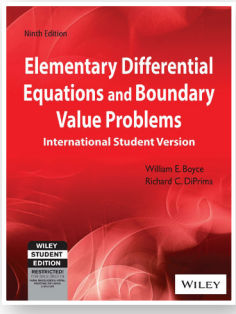
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TABLE OF CONTENTS

• 22 Electric Charges and Fields • 23 Gauss' Law • 24 Electric Potential • 25 Capacitance • 26 Current and Resistance • 27 Circuits • 28 Magnetic Force • 29 Magnetic Fields Due to Currents • 30 Maxwell's Equations; Magnetism of Matter • 31 Electromagnetic Induction • 32 Electromagnetic Oscillations and Alternating Current • 33 Electromagnetic Waves • 34 Geometrical Optics: Reflection • 35 Geometrical Optics: Refraction • 36 Interference and Diffraction • 37 Relativity (Optional) • 38 Photons and Matter Waves • 39 Hydrogen Atom • 40 All About Atoms • 41 The Nucleus • 42 Conduction of Electricity in Solids

9789377067502 | Pages: 994 | ₹ 1169

MATHEMATICS / STATISTICS



Elementary Differential Equations and Boundary Value Problems, 9ed | IM

William E. Boyce, Richard C. Diprima

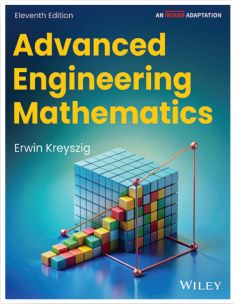
ABOUT THE AUTHOR

William E. Boyce received his B.A. degree in Mathematics from Rhodes College, and his M.S. and Ph.D. degrees in Mathematics from Carnegie-Mellon University. He is a member of the American Mathematical Society, the Mathematical Association of America, and the Society for Industrial and Applied Mathematics. He is currently the Edward P. Hamilton Distinguished Professor Emeritus of Science Education (Department of Mathematical Sciences) at Rensselaer. He is the author of numerous technical papers in boundary value problems and random differential equations and their applications. He is the author of several textbooks including two differential equations texts, and is the coauthor (with M.H. Holmes, J.G. Ecker, andW.L. Siegmann) of a text on using Maple to explore Calculus.

ABOUT THE BOOK

Written from the perspective of the applied mathematician, the latest edition of this bestselling book focuses on the theory and practical applications of Differential Equations to engineering and the sciences. Emphasis is placed on the methods of solution, analysis, and approximation. Use of technology, illustrations, and problem sets help readers develop an intuitive understanding of the material. Historical footnotes trace the development of the discipline and identify outstanding individual contributions. This book builds the foundation for anyone who needs to learn differential equations and then progress to more advanced studies

9788126521555 | Pages: 816 | ₹ 979



Advanced Engineering Mathematics, 11ed (An Indian Adaptation) | e

Erwin Kreyszig

ABOUT THE AUTHOR

Erwin Kreyszig Professor of Mathematics Ohio State University, Columbus, Ohio

Herbert Kreyszig New York, New York

Edward J. Norminton Associate Professor of Mathematics Carleton University, Ottawa, Ontario

ABOUT THE BOOK

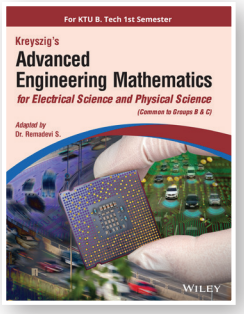
Advanced Engineering Mathematics, 11th Edition, is known for its comprehensive coverage, careful and correct mathematics, outstanding exercises, and self-contained subject matter parts for maximum flexibility. It opens with ordinary differential equations and ends with the topic of mathematical statistics. The analysis chapters address: Fourier analysis and partial differential equations, complex analysis, and numeric analysis. The book is written by a pioneer in the field of applied mathematics. This comprehensive volume is designed to equip students and professionals with the mathematical tools necessary to tackle complex engineering challenges and drive innovation.

This edition of the text maintains those aspects of the previous editions that have led to the book being so successful. In addition to introducing a new appendix on emerging topics in applied mathematics, each chapter now features a dedicated section on how mathematical modeling and engineering can address environmental and societal challenges, promoting sustainability and ethical practices. This edition includes a revision of the problem sets, making them even more effective, useful, and up-to-date by adding the problems on open-source mathematical software.

TABLE OF CONTENTS

• PART A Ordinary Differential Equations (ODEs) • CHAPTER 1 First-Order ODEs • CHAPTER 2 Second-Order Linear ODEs • CHAPTER 3 Higher Order Linear ODEs • CHAPTER 4 Systems of ODEs. Phase Plane. Qualitative Methods • CHAPTER 5 Series Solutions of ODEs. Special Functions • CHAPTER 6 Laplace Transforms • PART B Linear Algebra. Vector Calculus • CHAPTER 7 Linear Algebra: Matrices, Vectors, Determinants. Linear Systems • CHAPTER 8 Linear Algebra: Matrix Eigenvalue Problems • CHAPTER 9 Vector Differential Calculus. Grad, Div, Curl • CHAPTER 10 Vector Integral Calculus. Integral Theorems • PART C Fourier Analysis. Partial Differential Equations (PDEs) • CHAPTER 11 Fourier Analysis • CHAPTER 12 Partial Differential Equations (PDEs) • PART D Complex Analysis • CHAPTER 13 Complex Numbers and Functions. Complex Differentiation • CHAPTER 14 Complex Integration • CHAPTER 15 Power Series, Taylor Series • CHAPTER 16 Laurent Series. Residue Integration • CHAPTER 17 Conformal Mapping • CHAPTER 18 Complex Analysis and Potential Theory • PART E Numeric Analysis Software • CHAPTER 19 Numerics in General • CHAPTER 20 Numeric Linear Algebra • CHAPTER 21 Numerics for ODEs and PDEs • PART F Optimization, Graphs • CHAPTER 22 Unconstrained Optimization. Linear Programming • CHAPTER 23 Graphs. Combinatorial Optimization • PART G Probability, Statistics (available online) • CHAPTER 24 Data Analysis. Probability Theory • CHAPTER 25 Mathematical Statistics • PROJECTs • APPENDIX 1 References • APPENDIX 2 Answers to Odd-Numbered Problems (available online) • APPENDIX 3 Auxiliary Material • APPENDIX 4 Additional Proofs • APPENDIX 5 Tables • APPENDIX 6 Emerging Topics in Applied Mathematics

9789373329949 | Pages: 1152 | ₹ 1099



Kreyszig's Advanced Engineering Mathematics for Electrical Science and Physical Science (Common to G

Erwin Kreyszig, Dr. Remadevi. S

ABOUT THE AUTHOR

Erwin Kreyszig Professor of Mathematics Ohio State University Columbus, Ohio

Herbert Kreyszig Carleton University Associate Professor of Mathematics

Edward J. Normination Associate Professor of Mathematics Carleton University Ottawa, Ontario Adapted for KTU by

Dr. Remadevi. S Retd. Professor and Head of Department of Applied Science, Govt. Model Engineering College, Thrikkakara, Cochin, Kerala

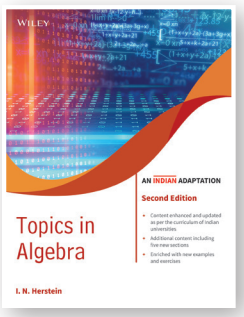
ABOUT THE BOOK

This book is a refined adaptation of the 10th edition of the best-selling title, Advanced Engineering Mathematics by Erwin Kreyszig. Renowned for its expository style and clarity of presentation, this text offers an elementary exploration of the subject, addressing the evolving needs of today's students. Our aim is to elucidate the fundamentals of the subject in the most comprehensible way.

TABLE OF CONTENTS

• Linear Algebra • Ordinary Differential Equations • Laplace Transforms • Series Representation of Functions

9789363866836 | Pages: 200 | ₹ 493



Topics in Algebra, 2ed (An Indian Adaptation) | e

I. N. Herstein

ABOUT THE AUTHOR

Israel Nathan Herstein was a mathematician, appointed as professor at the University of Chicago in 1951. He worked on a variety of areas of algebra, including ring theory, with over 100 research papers and over a dozen books.

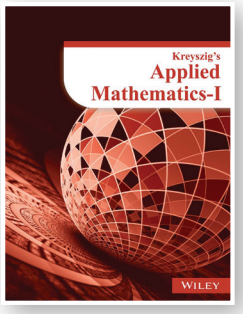
ABOUT THE BOOK

The Indian Adaptation of Topics in Algebra, Second Edition, offers new and updated material relevant to the Indian context. Certain chapters have been expanded to include topics such as Group Actions, Semi- Direct Products, The Fundamental Theorem of Algebra, The Characteristic Polynomial and Orthogonal Matrices. In keeping with the ethos of the original, the text continues to offer a great number of examples and problems which serve to illustrate the significance of the results proved in the text. More than a third of the examples and problems are new or revised.

TABLE OF CONTENTS

• Preliminary Notions • Group Theory • Ring Theory • Vector Spaces and Modules • Fields • Linear Transformations • Selected Topics

9789354641688 | Pages: 384 | ₹ 926



Kreyszig's Applied Mathematics - I, (As per syllabus of KU)

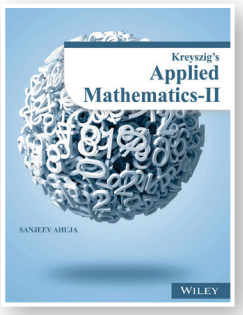
ABOUT THE BOOK

This version of Advanced Engineering Mathematics by Prof. Erwin Kreyszig, globally the most popular textbook on the subject, is restructured to present the content in a concise and easy-to-understand manner. It fulfills the need for a book that not only effectively explains the concepts but also aids in visualizing the underlying geometric interpretation. Every chapter has easy to follow explanation of the theory and numerous step-by-step solved problems and examples. The questions have been hand-picked to suit the current pattern of questions asked. Extreme care has been taken to provide careful and correct mathematics, outstanding exercises.

TABLE OF CONTENTS

• Linear Algebra • Differential Calculus I • Differential Calculus 2 • Integral Calculus • Infinite Series

9788126550753 | Pages: 525 | ₹ 885



Kreyszig's Applied Mathematics-II

Sanjeev Ahuja

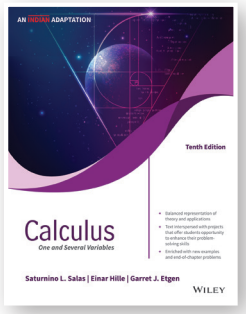
ABOUT THE BOOK

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TABLE OF CONTENTS

• Preface • Chapter 1 Theory of Equations • Chapter 2 Laplace transforms and it's Application • Chapter 3 Differential Equations of First Order • Chapter 4 Second and Higher Order Differential Equations • Chapter 5 Vector Calculus • Important Points and Formulas • Exercises • Answers

9788126553754 | Pages: 462 | ₹ 792



Calculus, 10ed, An Indian Adaptation : One and Several Variables | e | IM

Saturnino L. Salas, Einar Hille, Garret J. Etgen

ABOUT THE AUTHOR

Saturnino L. Salas is the author of various Wiley calculus textbooks.

Garret J. Etgen is a professor of mathematics and the University of Houston.

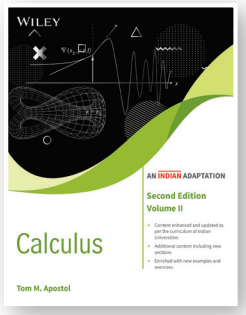
ABOUT THE BOOK

Calculus: One and Several Variables is a classic book known for its elegant writing style, precision, and perfect balance of theory and applications. The book explores the concepts, properties, and applications of the differential and integral calculus. Starting with limits and continuity, the book focuses on derivatives and indefinite integrals of various algebraic and transcendental functions.

TABLE OF CONTENTS

• Limits and Continuity • The Derivative; The Process of Differentiation • The Mean-Value Theorem; Applications of the First and Second Derivatives • Integration • Some Applications of the Integral • The Transcendental Functions • Techniques of Integration • Some Differential Equations • The Conic Sections; Polar Coordinates; Parametric Equations • Sequences; Indeterminate Forms; Improper Integrals • Infinite Series • Vectors in Three-dimensional Space • Vector Calculus • Functions of Several Variables • Gradients; Extreme Values; Differentials • Double and Triple Integrals • Line Integrals and Surface Integrals • Additional Differential Equations

9789390421961 | Pages: 1156 | ₹ 1099



Calculus, Vol II, 2ed (An Indian Adaptation) | e | IM

Tom M. Apostol

ABOUT THE AUTHOR

Calculus, Second Edition, strikes a perfect balance between theory and technique. Although it differs from the majority of contemporary texts, treating integration before differentiation is the most accurate historical representation of the relationship between the integral and the derivative. This introduces the mean-value theorems and their applications earlier in the text, incorporates a treatment of linear algebra, and contains many new and easier exercises. As in the first edition, an interesting historical introduction precedes each important new concept.

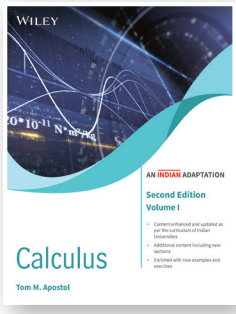
ABOUT THE BOOK

" Linear Analysis • Nonlinear Analysis • Special Topics

TABLE OF CONTENTS

• Integrated-Circuit Devices and Modelling • Processing and

9789354642722 | Pages: 644 | ₹ 1029



Calculus, Vol I, 2ed (An Indian Adaptation) | e

Tom M. Apostol, Dr. Jitender Singh, Dr. Suraj Goyal

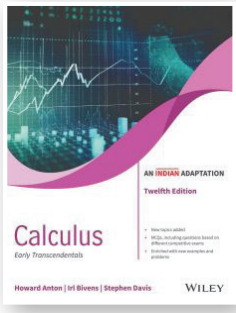
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TABLE OF CONTENTS

• Historical Introduction • Basic Concepts of Set Theory • Axioms for the Real-Number System • Mathematical Induction, Summation Notation, and Related Topics • Integral Calculus • Applications of Integration • Continuous Functions • Differential Calculus • Relation Between Integration and Differentiation • The Logarithm, the Exponential, and the Inverse Trigonometric Functions • Polynomial Approximations to Functions • Differential Equations • Complex Numbers • Sequences, Infinite Series, Improper Integrals • Sequences and Series of Functions • Vector Algebra • Applications of Vector Algebra to Analytic Geometry • Calculus of Vector-Valued Functions • Linear Spaces • Linear Transformations and Matrices

9789354642630 | Pages: 684 | ₹ 1019



Calculus, 12ed (An Indian Adaptation) : Early Transcendentals | e

Howard Anton, Irl C. Bivens, Stephen Davis, Praveen Kumar Gupta, Debarjoyti Choudhuri, Saifur Rahman

ABOUT THE AUTHOR

HOWARD ANTON In the early 1960s worked for Burroughs Corporation and Avco Corporation at Cape Canaveral, Florida, where he was involved with the manned space program. In 1968 he joined the Mathematics Department at Drexel University, where he taught full time until 1983. Since that time, he has been an Emeritus Professor at Drexel and has devoted most of his time to textbook writing and activities for mathematical associations.

IRL BIVENS has published numerous articles on undergraduate mathematics and is a recipient of the George Polya Award, the Merten M. Hasse Prize for Expository Writing in Mathematics, and, together with Benjamin G. Klein, the Carl B. Allendoerfer Award.

STEPHEN DAVIS Dr. Davis joined the faculty at Davidson College in 1981, teaching courses that included calculus, linear algebra, abstract algebra, and computer science, until retiring as Emeritus Professor in 2019. Professor Davis held several offices in the Southeastern section of the MAA, including chair and secretary-treasurer, and represented the section on the MAA Board of Governors.

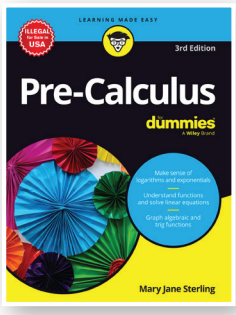
ABOUT THE BOOK

This Indian adaptation of the book maintains those aspects of the previous editions that have led to the series being so successful. In addition to strengthening the coverage of Trigonometric and Derivative Functions, this edition includes Predator-Prey Model for mathematical modelling of differential equations. The topic of Infinite Series has also been elaborated by adding Subsequence, Bounded Sequences, and Logarithmic Test. This edition also includes multiple choice questions based on the questions from competitive examinations.

TABLE OF CONTENTS

• Limits and Continuity • The Derivative • Differentiation • The Derivative in Graphing and Applications • Integration • Applications of the Definitive Integral • Principles of Integral Evaluation • Mathematical Modeling with Differential Equations • Parametric and Polar Curves Conic Sections • Infinite Series • Three-Dimensional Space Vectors • Vector-Valued Fucntions • Partial Derivatives • Multiple Integrals • Vector Calculus

9789357460811 | Pages: 1249 | ₹ 1319



Pre-Calculus For Dummies, 3ed | e

Mary Jane Sterling

ABOUT THE AUTHOR

Mary Jane Sterling aught algebra, business calculus, geometry, and finite mathematics at Bradley University in Peoria, Illinois for more than 30 years. She is the author of several For Dummies books, including Algebra Workbook For Dummies, Algebra II For Dummies, and Algebra II Workbook For Dummies.

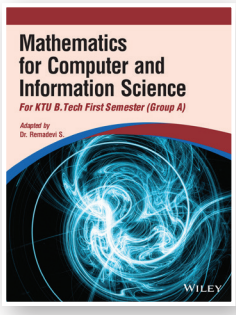
ABOUT THE BOOK

Pre-Calculus For Dummies is an invaluable resource for students enrolled in pre-calculus courses. By presenting the essential topics in a clear and concise manner, the book helps students improve their understanding of pre-calculus and become prepared for upper level math courses.

TABLE OF CONTENTS

• Getting Started with Pre-Calculus • The Essentials of Trigonometry • Analytic Geometry and System Solving • The Part of Tens

9789363866485 | Pages: 416 | ₹ 959



Mathematics for Computer and Information Science For KTU B. Tech Semester 1 (Group A) | e

Erwin Kreyszig, Howard Anton, Dr. Remadevi S.

ABOUT THE AUTHOR

Erwin Kreyszig , Professor of Mathematics, Ohio State University ,Columbus, Ohio

Herbert Kreyszig, Carleton University , Associate Professor of Mathematics

Edward J. Normination , Associate Professor of Mathematics, Carleton University, Ottawa, Ontario Howard Anton, Drexel

University Irl Bivens, Davidson College Stephen Davis , Davidson College

Adapted for KTU by Dr. Remadevi. S, Retd. Professor and Head of Department of Applied Science, Govt. Model Engineering College, Thrikkakara, Cochin, Kerala

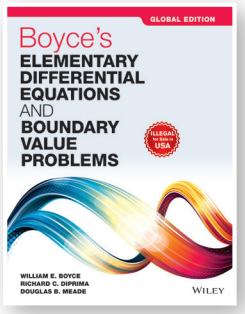
ABOUT THE BOOK

This book is a refined adaptation of the best-selling titles Advanced Engineering Mathematics by Erwin Kreyszig and Calculus: Early Transcendentals, 12th Edition by Howard Anton. Renowned for its expository style and clarity of presentation, this text offers an elementary exploration of the subject, addressing the evolving needs of today's students. Our aim is to elucidate the fundamentals of subject in the most comprehensible way,

TABLE OF CONTENTS

• limits, continuity and derivatives • functions of several variables and partial derivatives • directional derivatives, gradient and local extreme values • constrained maxima and minima and linear programming

9789363860421 | Pages: 356 | ₹ 493



Boyce's Elementary Differential Equations and Boundary Value Problems, Global Edition | e

William E. Boyce, Richard C. Diprima, Douglas B. Meade

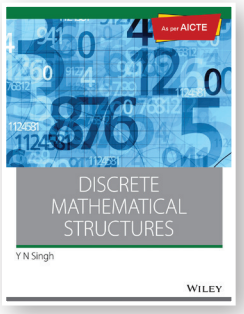
ABOUT THE BOOK

Elementary Differential Equations and Boundary Value Problems 11e, like its predecessors, is written from the viewpoint of the applied mathematician, whose interest in differential equations may sometimes be quite theoretical, sometimes intensely practical, and often somewhere in between. The authors have sought to combine a sound and accurate (but not abstract) exposition of the elementary theory of differential equations with considerable material on methods of solution, analysis, and approximation that have proved useful in a wide variety of applications.

TABLE OF CONTENTS

• First-Order Differential Equations • Second-Order Linear Differential Equations • Higher-Order Linear Differential Equations • Series Solutions of Second-Order Linear Equations • The Laplace Transform • Systems of First-Order Linear Equations • Numerical Methods • Nonlinear Differential Equations and Stability • Partial Differential Equations and Fourier Series • Boundary Value Problems and Sturm-Liouville Theory

9788126577484 | Pages: 612 | ₹ 1129



Discrete Mathematical Structures, As per AICTE | e

Y N Singh

ABOUT THE AUTHOR

The author is an Assistant Professor at Department of Computer Science and Engineering, Institute of Engineering & Technology. His areas of interest include: Biometric Systems, Machine Learning Methods & Algorithms, Medical Image Computing, Computer Vision and Pattern Recognition. My aim is to explore the knowledge of Mathematics, Cognitive Science, Artificial Intelligence and Biological Science to provide the solutions of the problems related to Real Time Identity Management System, Computer Vision and Human Computer Interaction.

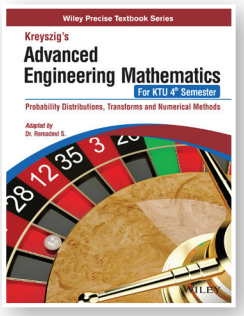
ABOUT THE BOOK

The purpose of the subject Discrete Mathematical Structures is to develop the understanding of theoretical foundations of Computer Science. The emphasis is given on the applications of discrete structures in computer science. Discrete structures include important material from areas such as Set Theory, Proving Methods, Algebraic Structures, Logic, Graphs, Trees, Recurrences and Combinatorics.

TABLE OF CONTENTS

• Set Theory • Relations • Functions • Natural Numbers • Algebraic Structures • Lattices • Boolean Algebra • Propositional Logic • Trees • Graphs • Recurrence Relations • Generating Functions • Combinatorics

9788126511952 | Pages: 364 | ₹ 949



Kreyszig's Advanced Engineering Mathematics, For KTU 4th Semester : Probability Distributions, Transforms and Numerical Methods | e

Dr. Remadevi S.

ABOUT THE AUTHOR

Dr. Remadevi S. is presently working as Professor in Mathematics and Head of Department of Applied Science in Government Model Engineering College, Thrikkakara, Cochin, Kerala. She has more than 25 years of teaching experience in Engineering Colleges with a good command over the subject.

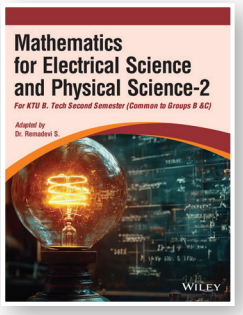
ABOUT THE BOOK

Advanced Engineering Mathematics by Erwin Kreyszig is the best-known prescribed textbook in almost all the universities in India and abroad. An attempt is made to fine-tune the components of this book written primarily as per the syllabus of B.Tech. course – MA 202, Probability Distributions, Transforms and Numerical Methods, A.P.J Abdul Kalam Technological University, Kerala (KTU). After each chapter, many solved and unsolved questions are added for students to practice and learn. The first two chapters have been contributed by the adapting author Dr. Remadevi S. to ensure all content required per the curriculum is available at a single place.

TABLE OF CONTENTS

• Discrete Probability Distributions • Continuous Probability Distributions • Fourier Integrals and Transforms • Laplace Transforms • Numerical Techniques I • Numerical Techniques II

9788126565610 | Pages: 320 | ₹ 585



Mathematics for Electrical Science and Physical Science-2 (Common to Groups B & C) For KTU B. Tech 2 | e

Erwin Kreyszig, Dr. Remadevi S.

ABOUT THE AUTHOR

Adapted for KTU by Dr. Remadevi. S Retd. Professor and Head of Department of Applied Science, Govt. Model Engineering College, Thrikkakara, Cochin, Kerala

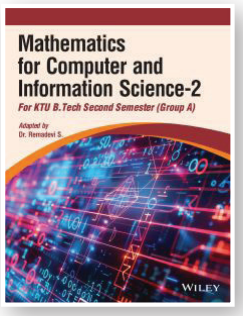
ABOUT THE BOOK

This book is a carefully crafted adaptation of the best-selling titles, Advanced Engineering Mathematics, 10th Edition by Erwin Kreyszig, and Calculus: Early Transcendentals, 12th Edition by Howard Anton. Known for its clear expository style and exceptional clarity, this textbook offers a thorough introduction to engineering mathematics and calculus, catering to the evolving needs of modern students in engineering and technical fields. Designed to enhance understanding of key mathematical concepts, it serves as an invaluable resource for students pursuing studies in engineering, mathematics, and related disciplines.

TABLE OF CONTENTS

• Multivariable Calculus-Differentiation • Multiple Integrals • Calculus of Vector Functions • Vector Integral Theorems

9789363865457 | Pages: 394 | ₹ 539



Mathematics for Computer and Information Science-2 For KTU B. Tech 2nd Semester (Group A) | e

Erwin Kreyszig, Dr. Remadevi S.

ABOUT THE AUTHOR

Adapted for KTU by Dr. Remadevi. S Retd. Professor and Head of Department of Applied Science, Govt. Model Engineering College, Thrikkakara, Cochin, Kerala

ABOUT THE BOOK

"Discover the Ultimate Guide to Calculus and Linear Algebra

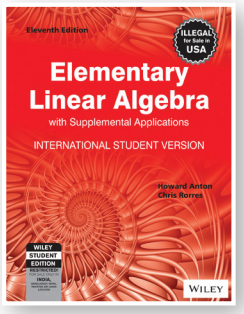
This book is a carefully crafted adaptation of three best-selling classics: Advanced Engineering Mathematics by Erwin Kreyszig, Calculus: Early Transcendentals, 12th Edition by Howard Anton, and Elementary Linear Algebra: Applications Version, 12th Edition by Howard Anton, Chris Rorres, and Anton Kaul.

Renowned for its clear explanations and engaging teaching style, this text provides a foundational understanding of calculus and linear algebra tailored to meet the needs of modern learners. Designed with a strong focus on pedagogy, it simplifies complex concepts, making them accessible to students at every level.

TABLE OF CONTENTS

• System of Linear Equations and Matrices • General Vector Spaces • Inner Product Spaces • Linear Transformations

9789363863118 | Pages: 262 | ₹ 493



Elementary Linear Algebra with Supplemental Applications, 11ed, ISV | e | IM

Howard Anton, Chris Rorres

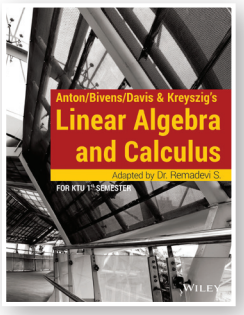
ABOUT THE BOOK

Elementary Linear Algebra 11th edition gives an elementary treatment of linear algebra that is suitable for a first course for undergraduate students. The aim is to present the fundamentals of linear algebra in the clearest possible way; pedagogy is the main consideration. Calculus is not a prerequisite, but there are clearly labeled exercises and examples (which can be omitted without loss of continuity) for students who have studied calculus.

TABLE OF CONTENTS

• Systems of Linear Equations and Matrices • Determinants • Euclidian Vector Spaces • General Vector Spaces • Eignvalues and Eigenvectors • Inner Product Spaces • Diagonolization and Quadratic Forms • Linear Transformations • Numerical Methods • Applications of Linear Algebra

9788126562961 | Pages: 784 | ₹ 1199



Anton/Bivens/Davis & Kreyszig's Linear Algebra and Calculus, For KTU 1st Semester | e

Dr. Remadevi S.

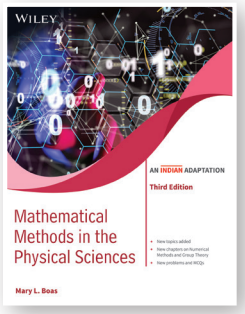
ABOUT THE AUTHOR

Dr. Remadevi. S, Retd. Professor and Head of Department of Applied Science, Govt. Model Engineering College, Thrikkakara, Cochin, Kerala

ABOUT THE BOOK

The tenth edition of this bestselling text includes examples in more detail and more applied exercises; both changes are aimed at making the material more relevant and accessible to readers. Kreyszig introduces engineers and computer scientists to advanced math topics as they relate to practical problems. It goes into the following topics at great depth differential equations, partial differential equations, Fourier analysis, vector analysis, complex analysis, and linear algebra/differential equations.

9788126519361 | Pages: 420 | ₹ 769



Mathematical Methods in the Physical Sciences, 3ed (An Indian Adaptation) | e | IM

Mary L. Boas, Abhinav Pratap Singh, Krishnakanta Mondal, Maheshwary, Sampurn Anand

ABOUT THE AUTHOR

Mary L. Boas is currently professor emeritus in the physics department at DePaul University.

Adapted by Abhinav Pratap Singh Assistant Professor, Department of Physics Dr. B.R. Ambedkar National Institute of Technology Jalandhar, Punjab

Krishnakanta Mondal DST-INSPIRE Faculty, Department of Physics Central University of Punjab

Maheshwary Assistant Professor, Department of Physics Central University of Haryana

Sampurn Anand Assistant Professor, Department of Physics Central University of Tamil Nadu

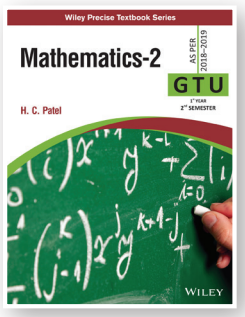
ABOUT THE BOOK

Mathematical Methods in the Physical Sciences, third edition, provides a comprehensive introduction to the areas of mathematical physics. Combining all the essential math concepts into one compact, clearly written reference, the book helps students develop a basic competence in each of the many areas of mathematics needed in advanced courses in Physics, Chemistry, and Engineering. With the emphasis on building a strong foundation, students are given an idea of how the methods can be used along with simple applications.

TABLE OF CONTENTS

• Infinite Series, Power Series • Complex Numbers • Linear Algebra • Elements Of Partial Differentiation • Multiple Integrals; Applications Of Integration • Vector Analysis • Fourier Series And Transforms • Ordinary Differential Equations • Calculus Of Variations • Tensor Analysis • Special Functions • Series Solutions Of Differential Equations; Legendre, Bessel, Hermite, And Laguerre Functions • Partial Differential Equations • Functions Of A Complex Variable • Probability And Statistics • Numerical Methods • Group Theory

9789354644252 | Pages: 888 | ₹ 1250



Mathematics-2 : As per 2018-2019 GTU 1st Year 2nd Semester | e

H.C. Patel

ABOUT THE AUTHOR

H. C. Patel is a Professor of Mathematics, General Department, L. D. College of Engineering, Ahmedabad, Gujarat, India. His areas of specialization are Engineering Mathematics and Tribology (Fluid Dynamics). He has 18+ years of quality teaching experience and holds prestigious memberships in various renowned professional bodies. In addition to have attended numerous international conferences, Prof. (Dr.) Patel has many articles, research papers and works to his credit in various national and international journals, conferences, seminars, etc.

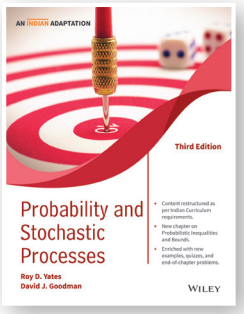
ABOUT THE BOOK

Mathematics-2 has been exclusively designed by completely covering 2018–2019 GTU syllabus, aiming to cater to the needs of the 1st-Year (2nd-Semester) Engineering graduates. This book provides quick conceptual understanding and application capability by its in-depth coverage of the topics. It is a must have book for the students as it contains unique explanation and crystal-clear expression in a step-by-step approach. The pedagogy of this book has been designed in sync with the learning objectives of core mathematics courses. Keeping in mind the learning curve for the students, all the chapters have been organized accordingly.

TABLE OF CONTENTS

•Vector Calculus • Laplace Transform • Fourier Integral • First-Order ODEs • ODEs of Higher Order • Series Solution and Special Functions

9788126579105 | Pages: 636 | ₹ 620



Probability and Stochastic Processes, 3ed, An Indian Adaptation | e | IM

Roy D. Yates, David J. Goodman

ABOUT THE AUTHOR

Roy Yates has been with the Wireless Information Networks Laboratory (WINLAB) and the ECE department at Rutgers University. Presently, he is an Associate Director of WINLAB and a Professor in the ECE Dept. He is a co-author (with David Goodman) of the text Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers published by John Wiley and Sons

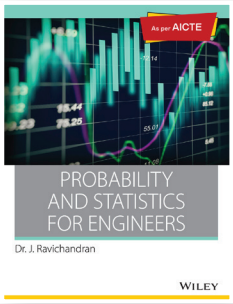
ABOUT THE BOOK

Probability and Stochastic Processes – A Friendly Introduction for Electrical and Computer Engineers, Third Edition is an extensive discourse that introduces engineering students to probability theory and stochastic processes. The book presents intuitive explanations of key points in order to help students apply math to practical engineering problems.

TABLE OF CONTENTS

• Random Experiments, Models, and Probabilities • Sequential Random Experiments • Discrete Random Variables • Continuous Random Variables • Multiple Random Variables • Probability Models of Derived Random Variables • Conditional Probability Models • Random Vectors • Sums of Random Variables • Some Probabilistic Inequalities and Bounds • Stochastic Processes and Markov Chains • Stationary Processes and Random Signal Processing

9789354243455 | Pages: 492 | ₹ 905



Probability and Statistics for Engineers, As per AICTE | e | IM

Dr. J. Ravichandran

ABOUT THE AUTHOR

Dr. J. Ravichandran is an associate professor at the Department of Mathematics, Amrita Vishwa Vidhyapeetham, Coimbatore, India. Earlier, he served the Statistical Quality Control department at a manufacturing industry for more than 12 years. His areas of research include statistical quality control, statistical inference, six sigma, total quality management and statistical pattern recognition. A senior member of the American Society for Quality (ASQ) for over 20 years and a member of the Indian Society for Technical Education (ISTE)

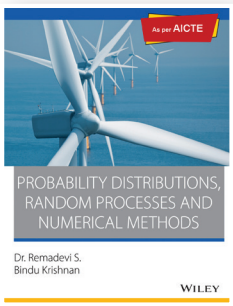
ABOUT THE BOOK

Probability and Statistics for Engineers is written for undergraduate students of engineering and physical sciences. Besides the students of B.E. and B.Tech., those pursuing MCA and MCS can also find the book useful. The book would be equally helpful for six sigma practitioners in industries. Comprehensive yet concise, the text is well-organized in 15 chapters that can be covered in a one-semester course in probability and statistics. Designed to meet the requirements of engineering students, the text covers all important topics, emphasizing basic engineering and science applications.

TABLE OF CONTENTS

• Probability Concepts • Random Variables and Distribution Functions • Expectation and Moment-Generating Function • Standard Discrete Distribution Functions • Some Standard Continuous Distribution Functions • Chebyshev's Inequality and Central Limit Theorem • Two-Dimensional Random Variables • Transformation of Random Variables • Point Estimation and Minimum Risk Estimator • Sampling Distributions and Interval Estimation • Testing of Hypotheses • Simple Correlation and Regression • Analysis of Variance: One-Way and Two-Way Analyses • Latin Square Design and Two-Factor Factorial Design • Statistical Quality Control and Six Sigma Metrics

9788126512348 | Pages: 612 | ₹ 957



Probability Distributions, Random Process and Numerical Methods, As per AICTE | e

Dr. Remadevi S., Bindu Krishnan

ABOUT THE AUTHOR

Dr. Remadevi S. is presently working as Professor in Mathematics and Head of Department of Applied Science in Government Model Engineering College, Thrikkakara, Cochin, Kerala. She has more than 25 years of teaching experience in engineering colleges with a good command over the subject.

Bindu Krishnan is presently working as Assistant Professor in TocH Institute of Science and Technology, Ernakulam, Kerala. She is a postgraduate in Statistics from Cochin University of Science and Technology with 18 years of teaching experience in engineering colleges.

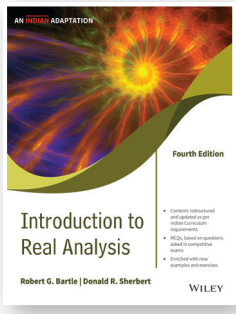
ABOUT THE BOOK

The book meets the requirement of B.Tech. (IV semester) students for the course MA 204, Probability Distributions, Random Processes and Numerical Methods of APJ Abdul Kalam Technological University (earlier Kerala Technological University), Kerala. The sixth chapter is adapted from the tenth edition of the bestselling title, Advanced Engineering Mathematics by Erwin Kreyszig. The text presents an elementary treatment of the subject and addresses the changing needs of a new generation of students.

TABLE OF CONTENTS

• Discrete Probability Distributions • Continuous Probability Distributions • Joint Distributions • Random Processes •Special Random Processes • Numerical Methods

9788126509843 | Pages: 308 | ₹ 957



Introduction to Real Analysis, 4ed, An Indian Adaptation | e | IM

Robert G. Bartle, Donald R. Sherbert

ABOUT THE AUTHOR

Robert G. Bartle was an American mathematician specializing in real analysis.

Donald R. Sherbert is Emeritus Professor at Department of Mathematics, University of Illinois at Urbana-Champaign.

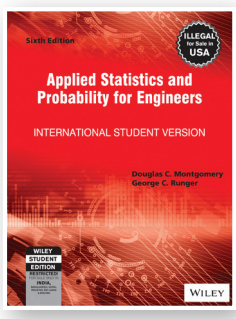
ABOUT THE BOOK

Introduction to Real Analysis is a comprehensive textbook, suitable for undergraduate level students of pure and applied mathematics. Starting with the background of the notations for sets and functions and mathematical induction, the book focuses on real numbers and their properties, real sequences along with associated limit concepts, and infinite series. The book then explores the concepts of fundamental properties of limits and continuous functions, basic theory of derivatives and applications, including mean value theorem, chain rule, and inversion theorem.

TABLE OF CONTENTS

• Preliminaries • The Real Numbers • Real Sequences • Infinite Series • Limits • Continuous Functions • Differentiation • The Riemann Integral • Sequences and Series of Functions • The Generalized Riemann Integral • A Glimpse into Topology • Functions of Several Real Variables

9789354244612 | Pages: 380 | ₹ 824



Applied Statistics and Probability for Engineers, 6ed, ISV | e | IM

Douglas C. Montgomery, George C. Runger

ABOUT THE BOOK

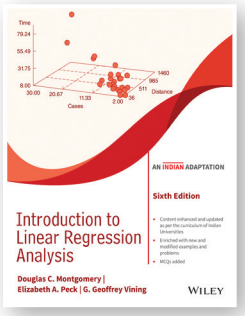
The text provides a practical approach oriented to engineering as well as chemical and physical sciences. Students learn how the material will be relevant in their careers through the integration through-

out of unique problem sets that reflect realistic applications and situations. Applied Statistics, 6th Edition is suitable for either a one- or two-term course in probability and statistics.

TABLE OF CONTENTS

• The Role of Statistics in Engineering • Probability • Discrete Random Variables and Probability Distributions • Continuous Random Variables and Probability Distributions • Joint Probability Distributions • Descriptive Statistics • Sampling Distributions and Point Estimation of Parameters • Statistical Intervals for a Single Sample • Tests of Hypotheses for a Single Sample • Statistical Inference for Two Samples • Simple Linear Regression and Correlation • Multiple Linear Regression • Design and Analysis of Single-Factor Experiments: The Analysis of Variance • Design of Experiments with Several Factors • Statistical Quality Control

9788126562947 | Pages: 792 | ₹ 1069



Introduction to Linear Regression Analysis, 6ed (An Indian Adaptation) | e | IM

Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining

ABOUT THE AUTHOR

Douglas C. Montgomery, Ph.D., is a Regents Professor of Industrial Engineering and Statistics at Arizona State University.

Elizabeth A. Peck, Ph.D., is a Logistics Modeling Specialist at the Coca-Cola Company in Atlanta, Georgia.

G. Geoffrey Vining, Ph.D., is a Professor in the Department of Statistics at Virginia Polytechnic and State University.

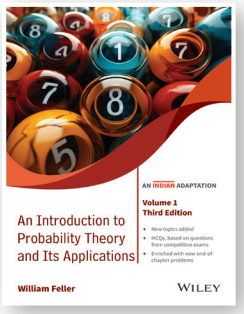
ABOUT THE BOOK

"This Indian adaptation of the sixth edition of the book builds on the conceptual strength and problem-solving approach of the original text to provide the best-suited content for Indian students. In line with the ethos of the original work, the text continues to provide a significant number of examples and problems with the modification of the existing content. More than a third of these examples and problems have been newly added or revised.

TABLE OF CONTENTS

• Chapter 1. Introduction • Chapter 2. Simple Linear Regression • Chapter 3. Multiple Linear Regression • Chapter 4. Model Adequacy Checking • Chapter 5. Transformations and Weighting to Correct Model Inadequacies • Chapter 6. Diagnostics for Leverage and Influence • Chapter 7. Polynomial Regression Models • Chapter 8. Indicator Variables • Chapter 9. Multicollinearity • Chapter 10. Variable Selection and Model Building • Chapter 11. Validation of Regression Models • Chapter 12. Introduction to Nonlinear Regression • Chapter 13. Generalized Linear Models • Chapter 14. Regression Analysis of Time Series Data • Chapter 15. Other Topics in The Use of Regression Analysis • Appendix A Statistical Tables • Appendix B Data Sets for Exercises • Appendix C Supplemental Technical Material • Appendix D Introduction to SAS • Appendix E Introduction to R To Perform Linear Regression Analysis • References • Index

9789357461283 | Pages: 680 | ₹ 1229



An Introduction to Probability Theory and Its Applications, Vol. 1, 3ed (An Indian Adaptation) | e

William Feller

ABOUT THE AUTHOR

William ""Vilim"" Feller worked on mathematical probability using Kolmogorov's measure theoretic formulation. His approach was pure mathematical, but he did study applications of probability, particularly to genetics. He transformed the relation between Markov processes and partial differential equations. Later he put his results in a functional analysis framework. Feller made notable contributions to the mathematical theory of Brownian motion and diffusion processes during the years 1930-1960.

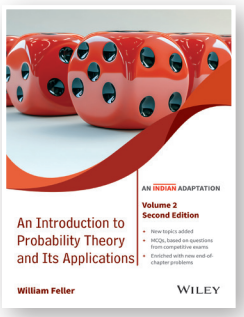
ABOUT THE BOOK

An Introduction to Probability Theory and Its Applications uniquely blends a comprehensive overview of probability theory with the real-world application of that theory. The book's comprehensive approach provides a complete view of theory along with enlightening examples along the way. This Indian edition enhances the coverage with new and updated content. It introduces new sections on modern approach to probability theory, limitations of frequentist probability definition, Lindeberg- Lévy central limit theorem, and infinite sequence of random variables and different modes of convergence. Additionally, a new appendix , featuring simplified real-world examples using R software, has been added. Many end-of-chapter problems throughout the book are new or revised. It also includes multiple-choice questions derived from various competitive examinations.

TABLE OF CONTENTS

• The Sample Space • Elements of Combinatorial Analysis • Combination of Events • Conditional Probability. Stochastic Independence • The Binomial and the Poisson Distributions • The Normal Approximation to the Binomial Distribution • Unlimited Sequences of Bernoulli Trials • Random Variables; Expectation • Law of Large Numbers • Integral-Valued Variables. Generating Functions • Compound Distributions. Branching Processes • Recurrent Events. Renewal Theory • Random Walk and Ruin Problems • Markov Chains • Algebraic Treatment of Finite Markov Chains • The Simplest Time-Dependent Stochastic Processes

9789363868496 | Pages: 524 | ₹ 1155



An Introduction to Probability Theory and Its Applications, Vol 2, 2ed (An Indian Adaptation) | e | IM

William Feller

ABOUT THE AUTHOR

William ""Vilim"" Feller was a Croatian-American mathematician specializing in probability theory. His Ph.D. was awarded by the University of Göttingen when he was only twenty years old. Feller worked on mathematical probability using Kolmogorov's measure theoretic formulation. His

approach was pure mathematical, but he did study applications of probability, particularly to genetics. He transformed the relation between Markov processes and partial differential equations. Later he put his results in a functional analysis framework. Feller made notable contributions to the mathematical theory of Brownian motion and diffusion processes during the years 1930-1960.

ABOUT THE BOOK

"An Introduction to Probability Theory and Its Applications offers comprehensive explanations to complex statistical problems. Delving deep into densities and distributions while relating critical formulas, processes, and approaches, this rigorous text provides a solid grounding in probability with practice problems throughout. Emphasizing application without neglecting theory, the text carefully explains complex topics and their practical use.

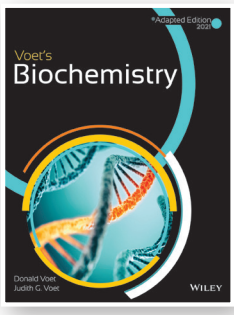
This Indian edition enhances the coverage with new and updated content. It introduces new sections discussing nonnormal densities in higher dimensions, statement of Hájek-Rényi inequality, and Kolmogorov's strong law of large numbers. Additionally, a new appendix , featuring simplified real-world examples using R software, has been added. Many end-of-chapter problems throughout the book are new or revised. It also includes multiple-choice questions derived from various competitive examinations.

TABLE OF CONTENTS

• The Exponential and the Uniform Densities • Special Densities. Randomization • Densities in Higher Dimensions. Normal Densities and Processes • Probability Measures and Spaces • Probability Distributions in Rr • Survey of Some Important Distributions and Processes • Laws of Large Numbers. Applications in Analysis • The Basic Limit Theorems • Infinitely Divisible Distributions and Semi-Groups • Markov Processes and Semi-Groups • Renewal Theory • Random Walks in R1 • Laplace Transforms. Tauberian Theorems. Resolvents • Applications of Laplace Transforms • Characteristic Functions • Expansions Related to the Central Limit Theorem • Infinitely Divisible Distributions • Applications of Fourier Methods to Random Walks • Harmonic Analysis

9789363867369 | Pages: 648 | ₹ 1199

LIFE SCIENCE



Voet's Biochemistry, Adapted Edition 2021 | e | IM

Donald Voet, Judith G. Voet

ABOUT THE AUTHOR

Donald Voet took up a faculty position in the department of chemistry at the University of Pennsylvania, upon completing his postdoctoral work. He has been a visiting scholar at Oxford University, the University of California San Diego, and the Weismann Institute of Science in Israel.

Judith Voet taught at the University of Delaware before moving to Swarthmore College. Together with Don Voet, she is Co-Editor-in-Chief of the journal Biochemistry and Molecular Biology Education.

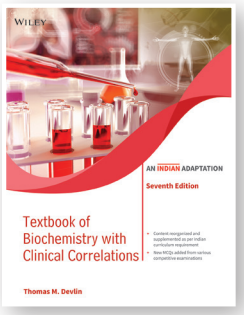
ABOUT THE BOOK

The "Gold Standard" in Biochemistry text books. Biochemistry 4e, is a modern classic that has been thoroughly revised. Don and Judy Voet explain biochemical concepts while offering a unified presentation of life and its variation through evolution. It incorporates both classical and current research to illustrate the historical source of much of our biochemical knowledge.

TABLE OF CONTENTS

• Introduction and Background • Biomolecules • Mechanisms of Enzyme Action • Metabolism • Expression and Transmission of Genetic Information

9789354243820 | Pages: 1560 | (Exclusive)



Textbook of Biochemistry with Clinical Correlations, 7ed (An Indian Adaptation) | e | IM

Thomas M. Devlin, Dr. Arunima Biswas, Dr. Mulaka Maruthi, Dr. Reena Haobam, Dr. Savita Bansal, Dr. S

ABOUT THE AUTHOR

Dr. Arunima Biswas Assistant Professor, Department of Zoology, University of Kalyani, West Bengal

Dr. Mulaka Maruthi Assistant Professor, Department of Biochemistry, School of Interdisciplinary and Applied Sciences,

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Dr. Savita Bansal Assistant Professor, Department of Biochemistry, Institute of Home Economics, University of Delhi, New Delhi

Dr. Shiv Kumar Dubey Assistant Professor, Department of Biochemistry, College of Basic Sciences and Humanities, Govind Ballabh Pant University of Agriculture and Technology, Uttarakhand

Dr. Sorokhaibam Jibankumar Singh Assistant Professor, Department of Biochemistry, Manipur University, Manipur

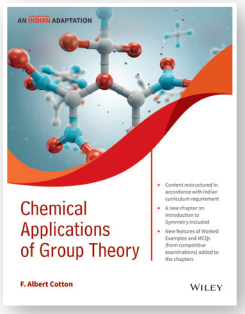
ABOUT THE BOOK

This book presents a clear and precise discussion of the biochemistry of eukaryotic cells, particularly those of mammalian tissues, relates biochemical events at a cellular level to the subsequent physiological processes in the whole animal, and cites examples of abnormal biochemical processes in human disease. The organization and content are tied together to provide students with a complete picture of biochemistry and how it relates to human diseases. This Indian adaptation of the Textbook of Biochemistry with Clinical Correlation, seventh edition, has been developed based on the detailed feedback obtained from long-standing users of the book about how the book should be revised.

TABLE OF CONTENTS

• Structure Of Macromolecules • Transmission Of Information • Functions Of Proteins • Metabolic Pathways And Their Control • Physiological Processes

9789354641558 | Pages: 1248 | ₹ (Exclusive)



Chemical Applications of Group Theory, An Indian Adaptation | e

F. Albert Cotton

ABOUT THE AUTHOR

F. Albert Cotton, American chemist (1930-2007) was renowned for his work in the field of inorganic chemistry, particularly his pioneering research into the direct chemical bonding of pairs and clusters of atoms of elements known as transition metals. He discovered and analyzed many compounds that contain double or multiple metal-metal bonds, including the first known metal-metal quadruple bonds (1964). In explaining the nature of metal-metal bonding and of bonding between metal and carbon atoms in organometallic molecules, Cotton's work was highly important in helping to understand catalysts, substances that increase the rate of a chemical reaction without being consumed in the reaction and that are essential in biological systems and certain industrial processes.

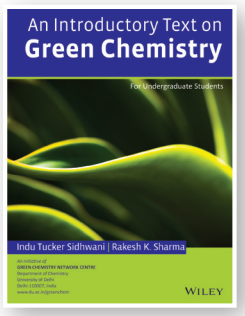
ABOUT THE BOOK

Chemical Applications of Group Theory is a well-established textbook that explains the principles of molecular and crystallographic symmetry and their immense significance. It aims to teach the use of symmetry arguments to the typical experimental chemist in a meaningful and useful manner and serves as the first introduction for students intending to pursue theoretical work in the field. It retains the easy-to-read format and informal flavor of the previous editions and includes new material on the symmetric properties of extended arrays (crystals), projection operators, LCAO molecular orbitals, and electron counting rules.

TABLE OF CONTENTS

• Introduction to Symmetry • Definitions and Theorems of Group Theory • Molecular Symmetry and the Symmetry Groups • Representations of Groups • Role of Quantum Mechanics in Group Theory • Molecular Orbital Theory and its Applications in Organic Chemistry • Molecular Orbital Theory for Inorganic and Organometallic Compounds • Ligand Field Theory • Molecular Vibrations • Crystallographic Symmetry

9788194726364 | Pages: 484 | ₹ 916



An Introductory Text on Green Chemistry : For Undergraduate Students | e

Indu Tucker Sidhwani, Rakesh K. Sharma

ABOUT THE AUTHOR

Dr. Indu Tucker Sidhwani retired as an Associate Professor in April 2017 from the Department of Chemistry, Gargi College, University of Delhi after a teaching career spanning 43 years. Dr. Sidhwani is involved in the "greening" of Chemistry education and improving existing experiments while also designing new green chemistry experiments for undergraduate and postgraduate students. She regularly conducts workshops for students as well as teachers of various schools, colleges and universities.

Prof. R. K. Sharma is the Coordinator of Green Chemistry Network Centre, established under the recommendation of World Leaders of Green Chemistry headed by Professor Paul Anastas. He is a fellow of Royal Society of Chemistry (RSC) and the Honorary Secretary of RSC London (North India Section). Apart from this, he is also the member of American Chemical Society (ACS) and the faculty advisor of International Student Chapter of ACS. Recently, he has been invited to be an Honorary Professor of Deakin University, Australia.

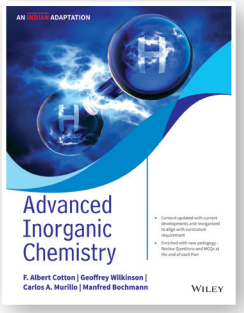
ABOUT THE BOOK

Green Chemistry also known as "Clean Chemistry" or "Sustainable Chemistry", has emerged as an important tool for meeting the major challenges of global sustainability. Innovations and applications of green chemistry in education have helped companies not only benefit environmentally but at the same time achieve economic and societal goals also. As education is the forerunner of implementation, a student must be trained to apply chemistry in a greener way. An Introductory Text on Green Chemistry is designed as a textbook for Discipline Specific Elective Course (DSE) on the subject. This book is written with an objective to introduce the concept of Green Chemistry to undergraduate students.

TABLE OF CONTENTS

• Introduction to Green Chemistry • Twelve Principles of Green Chemistry • Emerging Green Solvents • Green Chemistry and Catalysis • Alternative Green Energy Sources and Sustainability • Some Important Green Syntheses • Green Methodology in Pharmaceutical Industry • Real-World Cases in Green Chemistry • Some Future Trends in Green Chemistry • Green Chemistry in Education (To Meet the Challenges of Sustainable Development)

9788126554072 | Pages: 268 | ₹ 608



Advanced Inorganic Chemistry, An Indian Adaptation | e

F. Albert Cotton, Geoffrey Wilkinson, Carlos A. Murillo, Manfred Bochmann

ABOUT THE AUTHOR

F. Albert Cotton, W.T. Doherty-Wekh Foundation Distinguished Professor of Chemistry, Texas A & M University College Station, Texas, USA

Geoffrey Wilkinson, Sir Edward Frankland Professor of Inorganic Chemistry, Imperial College of Science and Technology, University of London, London, England

Carlos A. Murillo, Professor, University of Costa Rica Ciudad Universitaria, Costa Rica Adjunct Professor, Texas A&M University College Station, Texas, USA

Manfred Bochmann, Professor, School of Chemistry University of Leeds, Leeds, England

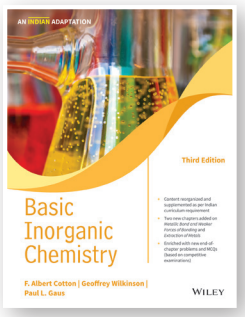
ABOUT THE BOOK

Advanced Inorganic Chemistry is a well-established source that students and professional chemists have turned to for the background needed to understand current research literature in inorganic chemistry and aspects of organometallic chemistry. This textbook is organized around the periodic table of elements and provides a systematic treatment of the chemistry of all chemical elements and their compounds. It incorporates important recent developments with an emphasis on advances in the interpretation of structure, bonding, and reactivity.

TABLE OF CONTENTS

• Survey of Principles • The Chemistry of the Main Group Elements • The Chemistry of the Transition Elements • The Role of Organometallic Chemistry in Catalysis • Practice Exercise

9789354245701 | Pages: 1128 | ₹ 1169



Basic Inorganic Chemistry, 3ed An Indian Adaptation | e

F. Albert Cotton, Geoffrey Wilkinson, Paul L. Gaus

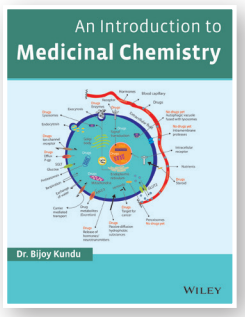
ABOUT THE BOOK

This Indian adaptation edition offers new and updated content while retaining the conceptual strength of the original. Two new chapters have been added to the book to make the coverage complete as per Indian curriculum requirement—Metallic Bond and Weaker Forces of Bonding and Extraction of Metals. Reorganization and addition of new topics in chapters aim to align the book better with the syllabus flow. Some new topics include Dipole Moments and Molecular Polarity, Geometries of Crystal Lattices, Effective Atomic Number Concept, Solvent Levelling, and Differentiating Effects, Borazine, Structure, and Nature of Hydrides, Sulfur-Nitrogen Compounds, Bonding and Molecular Orbital Diagram of Ferrocene, Metal ions in Biological Systems and more

TABLE OF CONTENTS

• First Principles • The Main Group Elements • Transition Elements • Some Special Topics

9789354246913 | Pages: 796 | ₹ 999



An Introduction to Medicinal Chemistry | e

Dr. Bijoy Kundu

ABOUT THE AUTHOR

Dr. Bijoy Kundu worked as post-doctoral fellow at City University of New York, USA with Prof. Fred Naider for two years (1981–82), and at University of Illinois, Urbana-Champaign, Illinois, USA from 1989–91with Prof. K.L. Rinehart. After his return from USA in 1982, he joined as Scientist B at CSIR-CDRI in the division of Biopolymers and within two years of his joining, he was selected as Scientist C in the same division at CSIR-CDRI. Finally, after putting in 30 years of service he superannuated as Chief scientist and Head of the Department of Medicinal Chemistry of CSIR-CDRI, Lucknow, India.

ABOUT THE BOOK

The present book "An Introduction to Medicinal Chemistry" is an introduction to the chemical and biological parameters, challenges and underlying principles involved in the early stages of drug discovery from bench to preclinical stage. My main objective has been to compile various aspects of drug discovery principles in the form of a handbook instead a textbook. The book may provide one-stop information dealing with mechanistic, biological and chemical aspects of drug design and improvisation of their actions. This has been exemplified by providing relevant examples of drugs for a better understanding.

TABLE OF CONTENTS

• Cell Signaling and Diseases • An Overview of Drug Action • The Modern Drug Development Process • Strategies for Identifying Hit Molecules • Drug Design Strategies • Role of Physicochemical Properties of Chemical Structures in Drug Design • Receptorology • Drug Receptor Theories • Receptor Antagonists • Drug-Target Interactions • Pharmacokinetics • Pharmacodynamics • Role of Enzymes in Metabolism • Digestive Enzymes

9788126599882 | Pages: 476 | ₹ 824



Spectrometric Identification of Organic Compounds, 8ed (An Indian Adaptation) | e | IM

Robert M. Silverstein , Francis X. Webster , David J. Kiemle , David L. Bryce

ABOUT THE AUTHOR

Dr. Robert M. Silverstein was born in Baltimore, MD, and moved to Staten Island at a young age. He received his bachelor's degree from the University of Pennsylvania in 1937 and his masters' degree from New York University in 1941. He served with the U.S. Army during World War II. He then earned his doctorate from New York University.

Francis X. Webster is the author of Spectrometric Identification of Organic Compounds, 8th Edition, published by Wiley.

David J. Kiemle is the author of Spectrometric Identification of Organic Compounds, 8th Edition, published by Wiley.

David L. Bryce is the author of Spectrometric Identification of Organic Compounds, 8th Edition, published by Wiley.

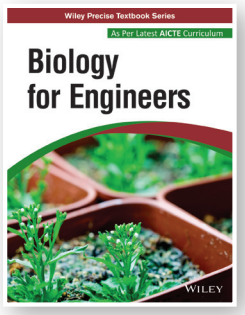
ABOUT THE BOOK

The Indian Adaptation of Spectrometric Identification of Organic Compounds, eighth edition of the book is reorganized, enhanced, and updated to offer complete coverage of Indian curriculum. Almost all spectroscopic techniques include updates in theory, instrumentation, and characterization of group absorptions UV-Visible Spectroscopy is now included as a part of the book. Chapter on Two-Dimensional NMR Spectroscopy is reorganized to explain 2D NMR techniques first with examples of simple molecules and then applied to analyze more complex molecules.

TABLE OF CONTENTS

• Ultraviolet-Visible Spectroscopy • Mass Spectrometry • Infrared Spectroscopy • Proton (1H) Magnetic Resonance Spectroscopy • Carbon-13 NMR Spectroscopy* • Two-dimensional NMR Spectroscopy • Multinuclear Magnetic Resonance Spectroscopy • Solved Problems • Assigned Problems

9789354642296 | Pages: 528 | ₹ 1069



Biology for Engineers : As per Latest AICTE Curriculum | e

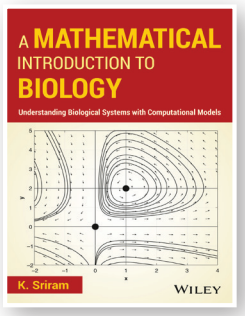
ABOUT THE BOOK

The book has been designed with the objective to meet the examination need of engineering students enrolling in the first year and is in accordance with the latest syllabus of AICTE. The content of the book is built with a student friendly approach to cover the fundamental topics on the course of Biology for Engineers. The book has a unique format which displays concepts clearly, places them in context and crisply identifies and describes all the factors involved.

TABLE OF CONTENTS

• Cell: The Basic Unit of Life • Biochemistry and Molecular Analysis • Enzymes • Introduction to Metabolism • Genetics • Transfer of Genetic Information • Evolution • Microbiology and Its Industrial Applications

9788126576340 | Pages: 200 | ₹ 525



A Mathematical Introduction to Biology : Understanding Biological Systems with Computational Models | e

K. Sriram

ABOUT THE AUTHOR

K. Sriram is an Associate Professor at IIIT-Delhi, where he has been a faculty member since 2012. Over the past 12 years, he has taught various courses in the Department of Computational Biology. He has developed courses like Systems Biology, Introduction to Mathematical Biology, Introduction to Quantitative Biology, Computational Neuroscience, Cell Biology, and Biochemistry tailored for undergraduate, postgraduate, and PhD students in the sciences and engineering disciplines. He is currently offering a course on Introduction to Mathematical Biology to master's and PhD students of Computational Biology, and this book is the culmination of notes used in that course. His research interests lie in systems and mathematical biology, and he has published numerous papers in reputable international journals

ABOUT THE BOOK

This book is perfect for a one-semester course called ""Introduction to Mathematical Biology,"" which is a 4-credit winter course. It provides a well-organized and complete learning experience, making it great for both students and teachers in mathematical biology. Discover the dynamic intricacies of metabolic, signaling, and genetic network motifs with ""A Mathematical Introduction to Biology: Understanding Biological Systems with Computational Models."" This book elegantly intertwines mathematics and life sciences to reveal the roles of feedback and feedforward patterns embedded within network structures, uncovering the mechanisms that govern living systems. Customised for both students and instructors, it offers an engaging and accessible approach to bridging the gap between mathematics and biology

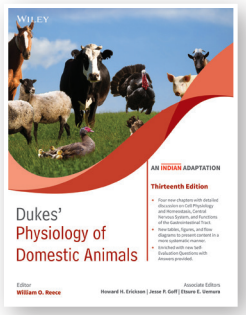
Spanning 19 comprehensive chapters, this book covers essential topics such as constructing differential equation models based on the principles of mass-action kinetics and Michaelis-Menten kinetics. It delves deeply into the feedback and feedforward mechanisms that form the backbone of signaling, metabolic, and gene regulatory network motifs. By applying dynamical systems theory to adaptation models, MAPK signaling pathways, the cell division cycle, and circadian rhythms, this resource becomes indispensable for understanding biological complexity.

Problems, examples, and downloadable instructor resources—including programmable MATLAB codes and lecture slide decks for each chapter—make it an ideal companion for both independent study and classroom instruction. This book aims to the undergraduate and postgraduate students who are studying computational or mathematical biology courses and professionals working in the biotechnology and pharmaceutical industries who may find the foundational knowledge useful.

TABLE OF CONTENTS

• Basic Calculus and Algebra • Mass Action Kinetics, Species Conservation Relationships, Steady • Time-Scale Analysis of Enzyme Kinetics: Quasi-Steady-State, • Linear and Nonlinear First-Order Differential Equations • Rate-Balance Plot, Threshold, and Ultrasensitivity • Second-Order Linear and Nonlinear Differential Equations • Phase-Plane Analysis of Two-Dimensional Linear and Nonlinear Differential Equations • Scaling and Dimensionless Analysis of Differential Equations • Bifurcation, Dynamical Analysis of Nonlinear Differential Equations,and Chemical Reaction Network Theory • Oscillations in Cell Biology • Network Motifs: Modelling of Positive and Negative Feedback Loops, and Identifying Their Dynamics • Feedforward Loops: Templates for Modelling Biological Systems and Identifying Their Dynamics • Signalling Motifs and Networks: Templates for Modelling and Identifying the Dynamics • Signalling Motifs in Adaptation, Homoeostasis, and Two-Component Systems • Circadian Oscillations • Cell Division Cycle • Probability • Stochastic Simulations

9789363867307 | Pages: 560 | ₹ 1379



Dukes' Physiology of Domestic Animals, 13ed (An Indian Adaptation) | e | IM

William O. Reece, Howard H. Erickson, Jesse P. Goff, Etsuro E. Uemura

ABOUT THE AUTHOR

William O. Reece is University Professor Emeritus in the Department of Biomedical Sciences, College of Veterinary Medicine, Iowa State University, Ames, Iowa, USA.

Howard Erickson is professor Emeritus of Physiology in the Department of Anatomy and Physiology, College of Veterinary Medicine, Kansas State University, Manhattan, Kansas, USA.

Jesse P. Goff is Professor and Anderson Chair in the Department of Biomedical Sciences, Iowa State University, College of Veterinary Medicine, Ames, Iowa, USA.

Etsuro E. Uemura is Professor in the Department of Biomedical

Sciences, College of Veterinary Medicine, Iowa State University, Ames, Iowa, USA.

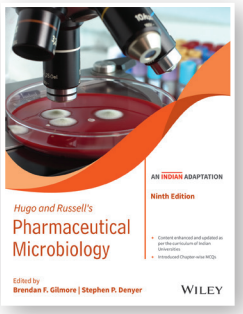
ABOUT THE BOOK

Dukes' Physiology of Domestic Animals 13th Edition serves as a reference for students learning physiological concepts, practitioners applying physiology to the clinical setting, and researchers requiring a resource for mammalian and avian physiology. Throughout the book, domestic animal structure and dysfunction is applied to practice setting, with clinical correlations, notes of relevance, and exercises featuring clinical situations to demonstrate practical relevance. Presenting detailed, complete descriptions of mammalian and avian function, it is equally useful as a primary text for veterinary students, as a practice reference for clinicians, and as a basic resource for researchers.

TABLE OF CONTENTS

• The Cell Concept and Homeostasis • Structural and Functional Characteristics of the Cell • Membrane Physiology • Nervous Tissue • Electrochemical Basis of Neuronal Function • Synaptic Transmission • Central Nervous System • Motor System • Autonomic Nervous System • Somatic and Visceral System • Olfaction and Gustation • Visual System • Auditory System • Vestibular System • Physiology of Skeletal Muscle • Cartilage, Bones, and Joints • Physiology of Smooth Muscle • Physiology of Cardiac Muscle, Muscle Adaptations, and Muscle Disorders • Body Water: Properties and Functions • The Composition and Functions of Blood • The Heart and Vasculature: Functional Structure and Basic Properties • Electrophysiology of the Heart • The Electrocardiogram and Cardia Arrhythmias • Mechanical Activity of the Heart • Regulation of the Heart • Control Mechanism of the Circulatory System • Microcirculation, Lymph, and Edema • Pulmonary Circulation • Regional Circulation • Heart Sounds and Murmurs • Hypertension, Heart Failure, and Shock • Overview of the Respiratory System • Physical and Mechanical Aspects of Respiration • Pulmonary Ventilation and Transport of Gases • Regulation of Respiration • Non-Respiratory Functions of the Respiration System • Respiration in Birds • The Renal System: Structures and Function • Formation and Concentration of Urine • Micturition, Characteristics of Urine, and Kidney Function Tests • Kidney Function in Birds • Kidney Regulation of Extracellular Volume and Electrolytes • Regulation of Acid-Base Balance • General Functions of Gastrointestinal Tract and Their Control • Gastrointestinal Motility • Secretory Activities of the Gastrointestinal Tract and Accessory Glands • Digestion and Absorption of Nutrients • Ruminant Digestive Physiology and Intestinal Microbiology • Avian Digestion • Introduction to Disorders of Carbohydrate and Fat Metabolism • Vitamins • Minerals • The Endocrine System • Male Reproduction in Mammals • Female Reproduction in Mammals • Lactation • Avian Reproduction • Body Temperature and Its Regulation • Exercise Physiology of Terrestrial Animals

9789354641015 | Pages: 940 | (Exclusive)



Hugo and Russell's Pharmaceutical Microbiology, 9ed (An Indian Adaptation) | e | IM

Brendan F. Gilmore, Stephen P. Denyer

ABOUT THE AUTHOR

"Brendan F. Gilmore, Ph.D is Professor of Pharmaceutical Microbiology at Queen's University of Belfast, UK.

Stephen P. Denyer, Ph.D is Emeritus Professor of Pharmacy at the Universities of Brighton and Sussex, Brighton, UK."

ABOUT THE BOOK

Hugo and Russell's Pharmaceutical Microbiology has long served as the sole comprehensive textbook covering the subject. The ninth edition of this textbook has been updated to a critical new period in the advancement of medical and pharmaceutical research and development. Its experienced editors have incorporated contributions from subject experts and created a text which will serve the next generation of pharmacy students, pharmaceutical industry scientists and researchers. Material covering the fundamentals of microbiology, microbial behaviour, laboratory investigation, microbe-host interactions, antibiotic resistance, emerging pathogens, public health microbiology, healthcare-associated infection and pharmaceutical product manufacture.

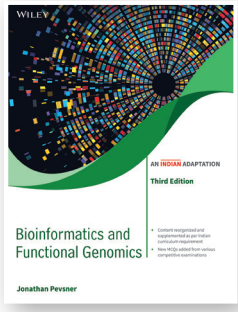
This Indian adaptation of the ninth edition contains up-to-date coverage of transposition, Koch's Postulates, ESKAPE pathogens and Rotavirus vaccination. It also offers integrated coverage of SARS-CoV-2 and the impacts of COVID-19, relating it to the importance of an interdisciplinary response to a global pandemic. The edition also focuses on strengthening the organization of the content, thus presenting a brand-new experience to the reader. Additionally, multiple-choice questions (MCQs) have been included.

TABLE OF CONTENTS

• Introducing Pharmaceutical Microbiology • Biology of Microorganisms • Pathogens and Host Response • Prescribing Therapeutics and Infection Control • Contamination and Contamination Control • Pharmaceutical Production • Current Trends and New Directions

9789357467933 | Pages: 628 | (Exclusive)

BIOINFORMATICS



Bioinformatics and Functional Genomics, 3ed (An Indian Adaptation) | e | IM

Jonathan Pevsner, Dr. Aditya Kumar, Dr. M. Suresh Kumar, Dr. Rajabrata Bhuyan, Dr. Sumer Singh Meena

ABOUT THE AUTHOR

Jonathan Pevsner, PhD

Professor Department of Neurology

Kennedy Krieger Institute Content Contribution for Indian Adaptation by

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Dr. Venkata Rajesh Yella Assistant Professor, Department of Biotechnology, Koneru Lakshmaiah Education Foundation, Andhra Pradesh

ABOUT THE BOOK

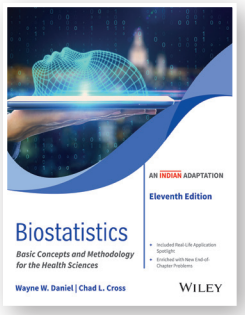
This Indian Adaptation of the third edition has thoroughly revised and enriched content to enable a clear and practical understanding of the subject. Greater emphasis on a computational approach, with clear guidance of how software tools work and introductions to the use of command-line tools such as software for next-generation sequence analysis, the R programming language, and NCBI search utilities are included. Along with the latest updates in the existing chapters, some new topics have also been added to complete Indian curriculum coverage.

TABLE OF CONTENTS

• Analyzing DNA, RNA, and Protein Sequences • Genomewide Analysis of DNA, RNA, and Protein • Genome Analysis

9789354641633 | Pages: 1800 | (Exclusive)

BIOSTATISTICS



Biostatistics, 11ed (An Indian Adaptation) : A Foundation for Analysis in the Health Sciences | e | IM

Wayne W. Daniel, Chad L. Cross

ABOUT THE AUTHOR

Wayne W. Daniel, Ph.D. Professor Emeritus Georgia State University

Chad L. Cross, Ph.D., PStat® Biostatistician Las Vegas, Nevada

ABOUT THE BOOK

Biostatistics: Basic Concepts and Methodology for the Health Sciences, 11th Edition maintains its predecessors' comprehensive approach to biostatistics as it is used in the biological sciences. Perfect for health science and biostatistics students and professors at the upper-undergraduate and graduate levels, it is a must-read reference for practitioners and professionals in the fields of pharmacy, biochemistry, nursing, health care informatics, and the applied health sciences. This new edition has been revised to more closely align with the modern practice of biostatics, teaching methods, and technologies.

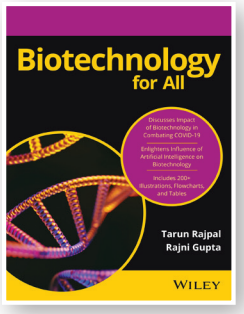
This Indian Adaptation has clearly defined pedagogical tools to help students stay up-todate with current real-life applications. It gives emphasis on statistical software, allows faster, more accurate calculation while putting the focus on the underlying concepts rather than the math. Students develop highly relevant skills in inferential and differential statistical techniques, equipping them with the ability to organize,summarize, and interpret large bodies of data.

TABLE OF CONTENTS

• Introduction to Biostatistics • Descriptive Statistics • Probability Distributions • Some Important Sampling Distributions • Estimation • Hypothesis Testing • Analysis of Variance • Simple Linear Regression and Correlation • Multiple Regression and Correlation • Regression Analysis: Some Additional Techniques • The Chi-Square Distribution and The Analysis Of Frequencies • Nonparametric And Distribution-Free Statistics • Survival Analysis • Vital Statistics

9789363865259 | Pages: 720 | (Exclusive)

BIOTECHNOLOGY



Biotechnology for All | e

Tarun Rajpal, Rajni Gupta

ABOUT THE AUTHOR

Dr. Tarun Rajpal completed his schooling at Salwan Public School, New Delhi, where he achieved the highest marks in the CBSE annual examinations in Biotechnology, becoming the All India CBSE topper in the subject. He pursued higher studies in Life Sciences at Kirori Mal College, University of Delhi, and was a Gold Medallist and college topper throughout his academic career.

Dr. Rajpal is an academician par excellence, known for developing a novel drug to cure diseases caused by retroviruses. He holds seven patents, which are utilized by various organizations globally.

In recognition of his contributions to biotechnology, Dr. Rajpal was honored with the title of 'Doctor of Science' (Honoris causa) by several prominent universities in India. He has received numerous awards from the Government of India and private sector organizations for his contributions to biotechnology research at a young age.

Professor Rajni Gupta is working as Professor in the Department of Botany, Kirori Mal College, University of Delhi. She obtained her M.Sc. and Ph.D. degrees in Botany from Agra University, Agra. Thereafter, she joined the Department of Botany, University of Delhi, New Delhi as Research Associate (CAS-UGC) in 1993. She completed her postdoctoral work under the guidance of Prof. K. G. Mukerji and worked on Mycorrhiza and Mycoherbicides.

ABOUT THE BOOK

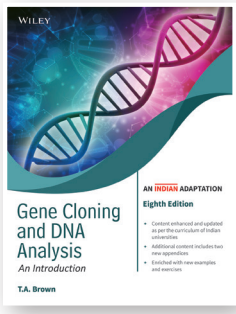
Biotechnology for All – Your Gateway to Understanding Biotechnology Biotechnology for All"" is a comprehensive and student-friendly book designed to simplify the complex world of biotechnology. Perfect for beginners, this book bridges the gap between fundamental biological concepts and their applications in biotechnology.

Tailored to meet the needs of students, it covers key topics in biotechnology with precision and clarity, making it an excellent resource for exam preparation. The content is presented in a crisp and concise format to ensure conceptual clarity and an engaging learning experience. Whether you're new to the subject or looking to strengthen your basics, ""Biotechnology for All"" is the ultimate guide to mastering the essentials of biotechnology.

TABLE OF CONTENTS

• Introduction • Nucleic Acids • Amino Acids • eDNA Technology • Basic Techniques • Immunology • Genomics • Bioinformatics • Phylogenetic Analysis • Plant Tissue Culture • Animal Tissue Culture • Microbial Cell Culture • Environmental Biotechnology • Biosafety And Intellectual Property Rights

9789363867147 | Pages: 444 | ₹ 699



Gene Cloning and DNA Analysis, 8ed (An Indian Adaptation) : An Introduction | e

T. A. Brown

ABOUT THE AUTHOR

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Dr. Sanjana Mehrotra Assistant Professor, Guru Nanak Dev University, Punjab

Dr. Suman Tapryal Assistant Professor, Central University of Rajasthan, Rajasthan

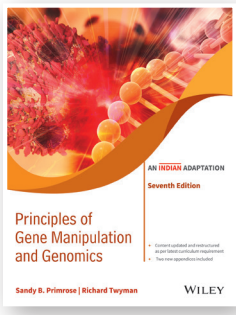
ABOUT THE BOOK

Gene Cloning and DNA Analysis: An Introduction, Eighth Edition is a comprehensive and authoritative textbook that explores all of the topics crucial to an understanding of gene cloning in an approachable way. This Adapted Edition has been developed based on the detailed feedback obtained from long-standing users of the book about how the book should be revised. Building on the strength of the previous editions, the focus of this adaptation has been on strengthening the concept coverage.

TABLE OF CONTENTS

• The Basic Principles of Gene Cloning and DNA Analysis • The Applications of Gene Cloning and DNA Analysis in Research • The Applications of Gene Cloning and DNA Analysis in Biotechnology

9789354643644 | Pages: 472 | (Exclusive)



Principles of Gene Manipulation and Genomics, 7ed (An Indian Adaptation)

Sandy B. Primrose, Richard Twyman, Dr. Aditya Kumar, Dr. Jayendra Nath Shukla, Dr. Shashi Chaudhary

ABOUT THE AUTHOR

Sandy B. Primrose and Richard Twyman

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Tezpur University, Assam

Dr. Jayendra Nath Shukla Assistant Professor Department of Biotechnology, Central University of Rajasthan (CURAJ), Rajasthan

Dr. Shashi Chaudhary Assistant Professor Department cum National Centre for Human genome Studies and Research Panjab University, Chandigarh

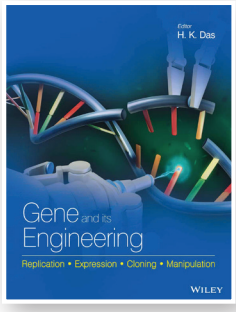
ABOUT THE BOOK

This Indian Adaptation of the seventh edition of the book contains updated and extended coverage on Far-Western blotting, Electroporation, PCR, Joining of DNA molecules, Primary nucleotide sequence database, Genetic manipulation of animals, RNA interference, Multidimensional liquid chromatography, Protein structures, etc. A number of new topics have been added to make the coverage of content complete as per the Indian curriculum requirement.

TABLE OF CONTENTS

• Applications of Recombinant DNA Technology • Manipulating DNA in Microbes, Plants, and Animals

9789354641534 | Pages: 712 | (Exclusive)



Gene and Its Engineering

H.K. Das

ABOUT THE AUTHOR

Professor H.K. Das is one of the pioneers who initiated Molecular Biology teaching and research in India. He developed the Molecular Biology course in the Department of Biochemistry, University of Calcutta and taught the course for 4 years. After a stint in the USA with Stanford University School of Medicine, University of California & University of Virginia, Charlottesville, he joined the Indian Agricultural Research Institute in New Delhi, where he developed three Molecular Biology courses (Mol Bio I, II and III) and taught one of the courses. Professor Das developed two Molecular Biology courses in the School of Life Sciences and then in the Centre for Biotechnology, Jawaharlal Nehru University, New Delhi and continued to teach there till his retirement.

Professor Das is still active in his field of research. He has published 47 original papers in peer-reviewed reputed international journals like Journal of Biological Chemistry, Journal of Molecular Biology and Nucleic Acids Research, 18 original papers in peer reviewed reputed national journals and 4 book chapters

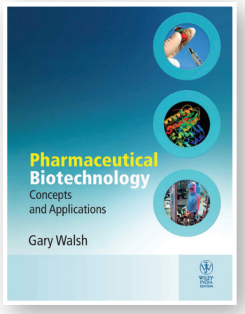
ABOUT THE BOOK

The book covers molecular biology of the gene and genetic engineering. It is an endeavour to expose students to the actual experiments that have revealed the science of gene and the development of its engineering. The book provides comprehensive details and chronological evolution of the structure of gene, its replication and expression, and genetic engineering based on significant discoveries made by the scientists. It is a comprehensive source of information to both students and instructors.

TABLE OF CONTENTS

• "Part I. Gene, its replication and its expression • Part II. Engineering of Gene

9788126549283 | Pages: 588 | (Exclusive)



Pharmaceutical Biotechnology: Concepts and Applications

Gary Walsh

ABOUT THE AUTHOR

Dr Gary Walsh. Chemical and Environmental Science Department, University of Limerick, Republic of Ireland

ABOUT THE BOOK

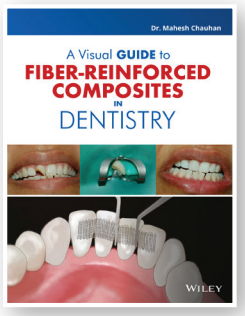
Pharmaceutical Biotechnology offers students taking Pharmacy and related Medical and Pharmaceutical courses a comprehensive introduction to the fast-moving area of biopharmaceuticals. With a particular focus on the subject taken from a pharmaceutical perspective, the book offers a broad introduction to protein science and recombinant DNA technology- key areas that underpin the whole subject. With two separate chapters devoted to these important topics, students are provided with the basic principles and coverage of how these techniques are applied in the development and production of biopharmaceuticals.

TABLE OF CONTENTS

• Preface • Acronyms • 1 Pharmaceuticals, biologics and biopharmaceuticals • 2 Protein structure • 3 Gene manipulation and recombinant DNA technology • 4 The drug development process • 5 Sources and upstream processing • 6 Downstream processing • 7 Product analysis • 8 The cytokines: The interferon family • 9 Cytokines: Interleukins and tumour necrosis factor • 10 Growth factors • 11 Therapeutic hormones • 12 Recombinant blood products and therapeutic enzymes • 13 Antibodies, vaccines and adjuvants • 14 Nucleic-acid- and cell-based therapeutics • Index

9788126530250 | Pages: 498 | (Exclusive)

DENTISTRY



A Visual Guide to Fiber-Reinforced Composites in Dentistry | e

Dr. Mahesh Chauhan

ABOUT THE AUTHOR

Dr. Mahesh Chauhan is a Gold Medalist graduate from Maulana Azad Institute of Dental Sciences, New Delhi, Delhi University 1990. He was an Adjunct Assistant Professor at The Ohio State University College of Dentistry Columbus Ohio USA in 1994 - 1995. After coming back to India in 1995 he established Mother Dental Implant Clinic in New Delhi, India. He's been in clinical practice for more than 25 years now. Dr. Chauhan has lectured and taught extensively at the National and International level on Oral Implantology, Restorative Dentistry, and Esthetic Dentistry.

ABOUT THE BOOK

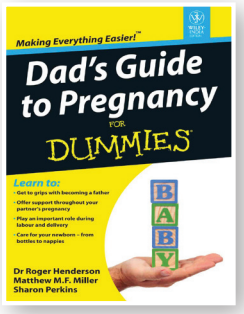
This book makes learning about FRCs very simple with a wide array of clinical case examples and preceded by a theoretical understanding of the periodontal disease and the science of dental materials used for FRC restorations. The first section of this book describes periodontal infections and tooth mobility, then lesions of endodontic origin. Afterward, the rationale of splinting mobile teeth concerning trauma from occlusion and how to assess tooth mobility is discussed.

TABLE OF CONTENTS

• Textbook • Periodontal Section • Restorative Section • Fiber Splint Technique Manual • Clinical Case Studies

9789354247910 | Pages: 240 | ₹ 1789

MEDICAL SCIENCE



Dad's Guide to Pregnancy for Dummies

Dr Roger Henderson, Matthew M.F. Miller, Sharon Perkins

ABOUT THE AUTHOR

Dr Roger Henderson has been a practicing GP for more than 20 years. In addition to his practice, Roger is the author of Stress Beaters: 100 Proven Ways to Manage Stress; 100 Ways to Live to 100, and the Over 50 Men's Health Check. He has a regular health column with The Sunday Times and has appeared as a medical advisor on the BBC2 series Supersizers Eat.

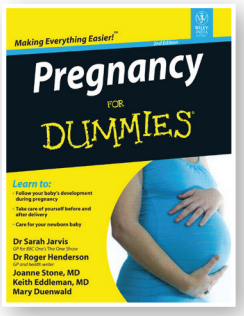
ABOUT THE BOOK

Dad's Guide to Pregnancy For Dummies is packed with practical, straightforward information for fathers-to-be, covering all of the logistical, physical and emotional aspects of pregnancy from a dad's unique point of view. When it comes to pregnancy, dads' roles have changed so much in the past few decades that expectant fathers don't always know where to turn to for guidance and advice on this milestone event. Now they do!

TABLE OF CONTENTS

• Introduction • Part I: So You Want to Be a Dad . . . • Part II: Great Expectations: Nine Months and Counting • Part III: Game Time! Labour, Delivery and Baby's Homecoming • Part IV: A Dad's Guide to Worrying • Part V: The Part of Tens

9788126535873 | Pages: 372 | ₹ 379



Pregnancy for Dummies, 2ed

Dr. Sarah Jarvis, Dr. Roger Henderson, Joanne Stone, Keith Eddleman, Mary Duenwald

ABOUT THE AUTHOR

Dr Roger Henderson has been a practicing GP for more than 20 years. In addition to his practice, Roger is the author of Stress Beaters: 100 Proven Ways to Manage Stress; 100 Ways to Live to 100, and the Over 50 Men's Health Check. He has a regular health column with The Sunday Times and has appeared as a medical advisor on the BBC2 series Supersizers Eat.

Dr Sarah Jarvis is a full time GP and ITN's Lunchtime News medical expert. Sarah takes part in regular interviews for BBC1, BBC2, Channel 4, Channel 5, Sky and various radio stations. She has writ-

ten articles for Today newspaper, Doctor magazine, was the Good HouseKeeping doctor and the co-author of A Younger Woman's diagnose-it-yourself Guide to Health. Sarah is also the author of the bestselling Diabetes For Dummies. Sarah is based in London, England.

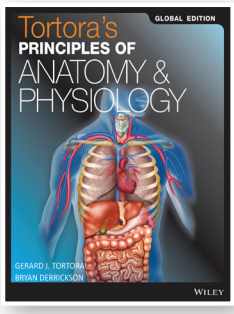
ABOUT THE BOOK

Having a baby is one of the most exciting times for a parent. Each pregnancy is different from the last. Both new and seasoned parents alike have questions and concerns over the course of the nine-month adventure. Pregnancy For Dummies, 2nd Edition will offer comfort and reassurance while serving as a guide to what mother and baby experience before, during, and just after birth.

TABLE OF CONTENTS

• Introduction • Part I: The Game Plan • Part II: Pregnancy: A Drama in Three Acts • Part III: The Big Event: Labour, Delivery and Recovery • Part IV: Special Concerns • Part V: The Part of Tens • Appendix: The Pregnant Man: Having a Baby from a Dad's Perspective • Index

9788126535880 | Pages: 3872 | ₹ 379



Tortora's Principles of Anatomy and Physiology (Textbook & Study Guide), Global Edition,Set of 2 Books

Gerard J. Tortora, Bryan Derrickson

ABOUT THE AUTHOR

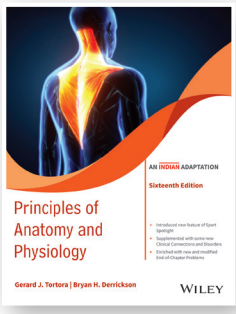
Gerard J. Tortora is Professor of Biology and former Coordinator at Bergen Community College in Paramus, NJ, where he teaches human anatomy and physiology as well as microbiology. He is a member of many professional organizations, such as the Human Anatomy and Physiology Society (HAPS), the American Society of Microbiology (ASM), American Association for the Advancement of Science (AAAS), National Education Association (NEA), and the Metropolitan Association of College and University Biologists (MACUB).

Bryan Derrickson is Professor of Biology at Valencia Community College in Orlando, Florida, where he teaches human anatomy and physiology as well as general biology and human sexuality. Bryan's study at Duke was in the Physiology Division within the Department of Cell Biology, so while his degree is in Cell Biology his training focused on physiology. At Valencia, he frequently serves on faculty hiring committees.

ABOUT THE BOOK

The new edition of this highly successful book maintains the superb balance between structure and function. It continues to emphasize the correlations between normal physiology and pathophysiology, normal anatomy and pathology, and homeostasis and homeostatic imbalances. The acclaimed illustration program is also even better along with the redevelopment of many of the figures depicting the toughest topics to grasp.

9788126567614 | Pages: 1288 | (Exclusive)



Principles of Anatomy and Physiology, Textbook & Study Guide,16ed, Set of 2 Books (An Indian Adaptation) | e

Gerard J. Tortora, Bryan H. Derrickson

ABOUT THE AUTHOR

"Gerard J. Tortora is a Professor of Biology and former Biology Coordinator at Bergen Community College in Paramus, New Jersey, where he teaches human anatomy and physiology as well as microbiology. He received his bachelor's degree in biology from Fairleigh Dickinson University and his master's degree in science education from Montclair State College.

Bryan H. Derrickson is Professor of Biology at Valencia Community College in Orlando, Florida, where he teaches human anatomy and physiology as well as general biology and human sexuality. At Valencia, he has served as a member of the Faculty Senate, which is the governing body of the college, and as a member of the Teaching and Learning Academy, which sets the standards for the acquisition of tenure by faculty members.

Dr. Abhinav Dixit Dean (Examinations) and Professor and Head Department of Physiology All India Institute of Medical Sciences (AIIMS), Jodhpur Rajasthan, India

Dr. Aditi Bhatnagar Associate Professor Departments of Anatomy School of Medical Sciences and Research Sharda University, Greater Noida, Uttar Pradesh, India

Dr. Arun Pralhad Chepte Professor Department of Anatomy Smt. B.K. Shah Medical Institute and Research Centre and Dhiraj Hospital, Vadodara, Gujrat, India

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Dr. Shilpi Gupta Dixit Vice Dean (Academics) and Professor Department of Anatomy All India Institute of Medical Sciences (AIIMS), Jodhpur Rajasthan, India

ABOUT THE BOOK

From the very first edition, Principles of Anatomy and Physiology has been recognized for its pioneering homeostatic approach to learning the structure and function of the human body. The 16th edition continues to set the discipline standard by combining exceptional content and outstanding visuals for a rich and comprehensive experience. It motivates and supports learners at every level, from novice to expert, and equip them with the skills they need to succeed in this class and beyond. More than one-third of the end-of-chapter Review Questions and Critical Thinking Questions are new or revised.

TABLE OF CONTENTS

• An Introduction to the Human Body • The Chemical Level of Organization • The Cellular Level of Organization • The Tissue Level of Organization • The Integumentary System • The Skeletal System: Bone Tissue • The Skeletal System: The Axial Skeleton •

The Skeletal System: The Appendicular Skeleton • Joints • Muscular Tissue • The Muscular System • Nervous Tissue • The Spinal Cord and Spinal Nerves • The Brain and Cranial Nerves • The Autonomic Nervous System • Sensory, Motor, and Integrative Systems • The Special Senses • The Endocrine System • The Cardiovascular System: The Blood • The Cardiovascular System: The Heart • The Cardiovascular System: Blood Vessels and Hemodynamics • The Lymphoid (Lymphatic) System and Immunity • The Respiratory System • The Digestive System • Metabolism and Nutrition • The Urinary System • Fluid, Electrolyte, and Acid–Base Homeostasis • The Genital (Reproductive) Systems • Development and Inheritance

9789357461641 | Pages: 1340| (Exclusive)



Medical Instrumentation, 5ed An Indian Adaptation : Application and Design | e | IM

John G. Webster, Amit J. Nimunkar

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.John W. Clark, Jr. Rice University

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3.Amit J. Nimunkar Biomedical Engineering, University of Wisconsin-Madison

4.Walter H. Olson Medtronic, Inc.

5.Robert A. Peura Worcester Polytechnic Ins.

6.Frank P. Primiano, Jr. Amethyst Research, Inc.

7.Melvin P. Siedband University of Wisconsin-Madison

8.John G. Webster Biomedical Engineering, University of Wisconsin-Madison

9.Lawrence A. Wheeler Nutritional Computing Concepts

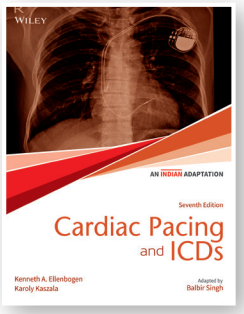
ABOUT THE BOOK

This Indian adaptation of the fifth edition of the book builds on the conceptual strength of the original to include new topics and reorganization of some existing for better alignment with Indian curriculum requirements. Basic concepts are supplemented with new topics on Receiver Operating Characteristics, and Quality Assurance and Quality Improvement. The book offers enhanced coverage of the developing fields of medical instrumentation, such as Biosensors, Electronic Opto-isolators, Biotelemetry, Gamma Cameras, and Microcontrollers – including their hardware, data transfer, and new biomedical applications.

TABLE OF CONTENTS

• Basic Concepts of Medical Instrumentation • Amplifiers and Signal Processing • Basic Sensors and Principles • The Origin Of Biopotentials • Biopotential Electrodes • Biopotential Amplifiers • Chemical Biosensors • Blood Pressure and Sound • Measurement of Flow and Volume Of Blood • Measurements Of The Respiratory System • Clinical Laboratory Instrumentation • Medical Imaging Systems • Therapeutic And Prosthetic Devices • Electrical Safety

9789354249150 | Pages: 656 | ₹ 1099



Cardiac Pacing and ICDs, 7ed (An Indian Adaptation) | e

Kenneth A. Ellenbogen , Karoly Kaszala, Balbir Singh

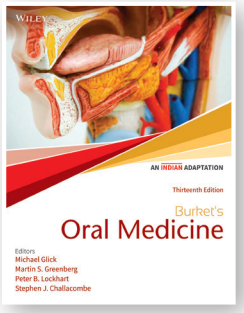
ABOUT THE BOOK

Cardiac Pacing and ICDs is an ideal resource for clinicians and fellows in cardiology and electrophysiology that provides an up-to-date breakdown of current device therapies for pacing and defibrillation. It provides the latest developments in the device treatment of heart rhythm abnormalities. Topics ranging from essential principles to new and innovative techniques are explored in focused chapters, illustrated with full-color images, charts, and diagrams.

TABLE OF CONTENTS

• Indications for Permanent Cardiac Pacing • Basics of Cardiac Pacing : Components of Pacing, Defibrillation, and Resynchronization Therapy Systems • Hemodynamics of Cardiac Pacing and Pacing Mode Selection • Temporary Cardiac Pacing • Techniques of Pacemaker and ICD Implantation and Removal • Pacemaker Timing Cycles and Special Features • Evaluation, Troubleshooting, and Management of Pacing System Malfunctions • The Implantable Cardioverter–Defibrillator • Cardiac Resynchronization Therapy • ICD Follow-Up and Troubleshooting • Follow-Up of the Patient with a CIED

9789354640698 | Pages: 456 | (Exclusive)



Burket's Oral Medicine, 13ed (An Indian Adaptation) | e

Michael Glick , Martin S. Greenberg, Peter B. Lockhart , Stephen J. Challacombe

ABOUT THE BOOK

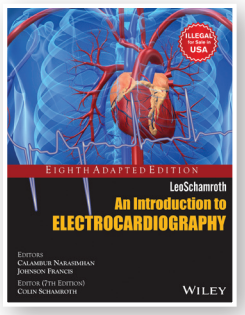
Thirteenth Edition of Burket's Oral Medicine is a comprehensive textbook that emphasizes the diagnosis and management of diseases of the mouth and maxillofacial region as well as safe dental management for patients with complex medical disorders such as cardiovascular disease, cancer, infectious diseases, bleeding disorders, renal diseases, and many more.

TABLE OF CONTENTS

• Introduction to • Oral • Medicine • and • Oral • Diagnosis: • Patient • Evaluation • Ulcerative, • Vesicular, • and • Bullous • Lesions • Red • and • White • Lesions • of • the • Oral • Mucosa • Pigmented • Lesions • of • the • Oral • Mucosa • Head • and • Neck • Cancer • Oral • Complications • of • Nonsurgical • Cancer • Therapies • Salivary • Gland • Diseases • Tongue • and • Taste • Disorder • Temporomandibular • Disorders • Neuropathic • Orofacial • Pain • Common • Headache • Disorders • Benign • Lesions • of • the • Oral • Cavity • and • the • Jaws • Diseases • of • the • Respiratory • Tract • Diseases • of • the • Cardiovascular • System • Diseases • of • the • Gastrointestinal • Tract • Renal • Diseases • Hematologic • Diseases • Bleeding • and • Clotting • Disorders • Immunologic • Diseases • Transplantation • Medicine • Infectious • Diseases • Disorders • of • the • Endocrine • System • and •

of • Metabolism • Neurologic • Diseases • Psychological • and • Psychiatric • Aspects • of • Oral • Health • Pediatric • Oral • Medicine • Geriatric • Oral • Medicine • The • Role • of • Genetics • in • Oral • Medicine • Laboratory • Investigations • in • Oral • Medicine • Overview • of • Clinical • Research • How • to • Identify, • Interpret • and • Apply • the • Scientific • Literature • to • Practice

9789354641473 | Pages: 1192 | (Exclusive)



LeoSchamroth, An Introduction to ElectroCardiography, 8 adapted ed

Calambur Narasimhan, Johnson Francis, LeoSchamroth

ABOUT THE AUTHOR

Dr. C Narasimhan, Sr. Consultant Cardiologist, Care Hospitals, Hyderabad. Recipient of a fellowship from Michael Reese Hospital, Chicago, and University of Wisconsin, Dr Narasimhan has several years of clinical and teaching experience in Electrocardiography.

Dr. Johnson Francis, Founder and Executive Editor, Indian Pacing and Electrophysiology Journal. Peer Reviewer for 15 International Journals including The Journal of American College of Cardiology, Heart Rhythm and PACE. Over forty published articles in reputed journals.

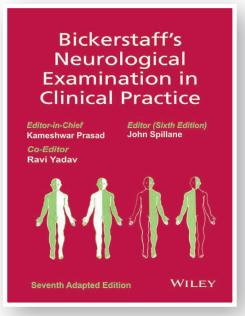
ABOUT THE BOOK

Schamaroth's An Introduction to Electrocardiography, 8th edition is a widely revised version of the popular book on electrocardiography, including recent developments in the field over the past decade. Several new conditions, which are diagnosed by electrocardiography like the life threatening arrhythmic disorders Brugada Syndrome and Short QT syndrome, have been described after the publication of the last edition. A lot of new information has become available on ECG localization of the culprit vessel in myocardial infarction after the widespread use of primary angioplasty in acute myocardial infarction.

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• "Book Review • Part 1: P-QRS-T Pattern • Part 2: The Disorders of Cardiac Rhythm

9788126538973 | Pages: 336 | (Exclusive)



Bickerstaff's Neurological Examination in Clinical Practice, 7 adapted ed

Kameshwar Prasad, Ravi Yadav, John Spillane

ABOUT THE AUTHOR

Prof Kameshwar Prasad was awarded the 'Best Medical Graduate of the year' at Rajendra Medical College. His area of interest includes clinical neurology, Stroke, Evidence-Based Medicine, Clinical Trials, Meta-Analysis, Medical Education, & Clinical Epidemiology.

Dr Ravi Yadav is working as an associate professor in the department of neurology at the prestigious National Institute of Mental Health and Neurosciences popularly called as NIMHANS at Bangalore. Following this he joined NIMHANS as a faculty in the department of Neurology.

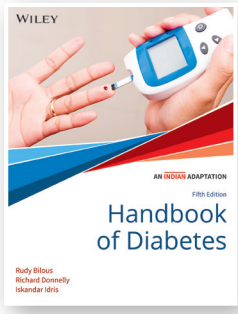
ABOUT THE BOOK

The book provides concise coverage of all the aspects of a neurological examination for a medical student and allied specialties for better understanding of the clinical localization. It will definitely make the learning of neurological examination 'easy'.

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• Preface • Preface to the Sixth Edition • Part 1: The Introductory Stages • Part 2: The Cranial Nerves • Part 3: The Motor System • Part 4: The Sensory System • Part 5: The Motor-Sensory Links • Part 6: Examinations of Particular Difficulty • Part 7: The Investigation of Neurological Problems (Excluding Neuroradiology and Imaging) • Part 8: Localization of Lesions • Part 9: Appendices • Index

9788126538980 | ₹ (Exclusive)



Handbook of Diabetes, 5ed (An Indian Adaptation) | e

Rudy Bilous, Richard Donnelly, Iskandar Idris

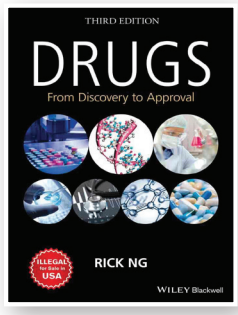
ABOUT THE BOOK

The Handbook of Diabetes provides concise and efficient coverage of the diagnosis, epidemiology, and management of diabetes and its complications. Containing hundreds of diagrams, illustrations, and clinical photographs, this popular quick-reference guide focuses on the management and measurement of diabetes mellitus with highly visual references. This Indian adaptation of the fifth edition has been developed based on the detailed feedback obtained from long-standing users of the book about how the book should be revised.

TABLE OF CONTENTS

• Introduction to Diabetes • Metabolic control and complications • The spectrum and organisation of diabetes care

9789354645129 | Pages: 340 | (Exclusive)

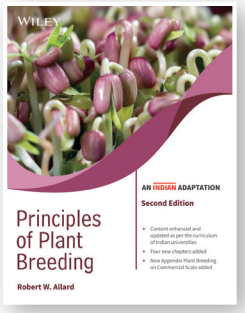


Drugs, 3ed : From Discovery to Approval | e

Rick Ng

9789370609648 | Pages: 560 | (Exclusive)

BOTANY



Principles of Plant Breeding, 2ed (An Indian Adaptation) | e

Robert W. Allard

ABOUT THE BOOK

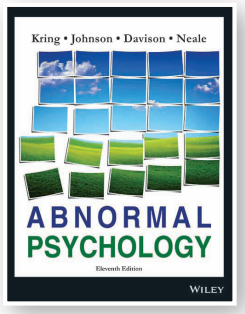
Plant breeding involves elements of both natural and cultural selection-a process that operates on individual plants and on plant populations. This book offers detailed knowledge of plant reproduction and their environmental interaction, which can help guide new breeding programs and help ensure continuing progress in providing more food for growing populations produced with better care of the environment. It has been written primarily for undergraduate students of agriculture.

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• Analyzing DNA, RNA, and Protein Sequences • Genomewide Analysis of DNA, RNA, and Protein • Genome Analysis

9789354643576 | Pages: 336 | (Exclusive)

HUMANITIES AND SOCIAL SCIENCE



Abnormal Psychology, 11ed

Kring,Johnson, Davison,Neale

ABOUT THE AUTHOR

Dr. Ann Kring is a professor of Psychology at the University of California-Berkeley and is the director of the Emotion and Social Interaction Laboratory. She received her PhD. from State University of New York at Stony Brook.

Gerald C. Davison (B.A., Harvard, 1961; Fulbright Scholar, University of Freiburg, West Germany, 1961-1962; Ph.D., Stanford, 1965) is Professor and Chairperson of the Department of Psychology at the University of Southern California, where he was also Director of Clinical Training from 1979 to 1984 and Chair of the Department of Psychology from 1984 to 1990. From 1994 to 1996 he served as Interim Dean of the USC Annenberg School for Communication. Previously he was on the psychology faculty at the State University of New York at Stony Brook (1966-1979). In 1969-70 he was visiting associate professor at Stanford University and in 1975-76, a National Institute of Mental Health Special Fellow at Harvard.

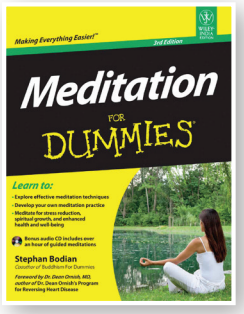
ABOUT THE BOOK

Psychologists rely on Abnormal Psychology because it sets the standard for clarity, cutting-edge coverage, authoritative content, and clinical emphasis. It helps them fully integrate the details of all the disorders and distinguish between the more important concepts. The Big Picture feature emphasizes the important comparisons and contrasts to other concepts presented in the chapters. A new discussion on mental disorders shows how the interpretation of behaviors is dependent on the context in which those behaviors occur. The eleventh edition also demonstrates how context drives the definitions of normal and abnormal behavior. With the new features, psychologists will find the material to be more accessible, engaging, and informative.

TABLE OF CONTENTS

• Part One Introduction and Fundamental Issues • Part Two Psychological Disorders • Part Three Life-Span Developmental Disorders • Part Four Intervention and Legal and Ethical Issues

9788126531844 | Pages: 672 | ₹ 1399



Meditation for Dummies, 3ed

Stephan Bodian

ABOUT THE AUTHOR

Stephan Bodian is a pioneer in the integration of Eastern wisdom and Western psychology. He graduated from Columbia University and did graduate work at Stanford, then spent 10 years as a Buddhist monk and another decade studying with a master of Indian non dualism.

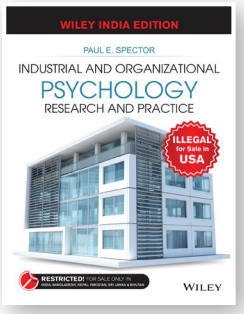
ABOUT THE BOOK

Meditation is a great way to reduce stress, increase energy, and enjoy better health. It is believed to result in a state of greater calmness and physical relaxation, and psychological balance. Plus, practicing meditation can change how you relate to the flow of emotions and thoughts in your everyday life.

TABLE OF CONTENTS

• Getting Acquainted with Meditation • Getting Started • Troubleshooting and Fine-Tuning Your Practice • Meditation in Action • The Part of Tens • Appendixes

9788126538744 | Pages: 384 | ₹ 429



Industrial and Organizational Psychology : Research and Practice | e | IM

Paul E. Spector

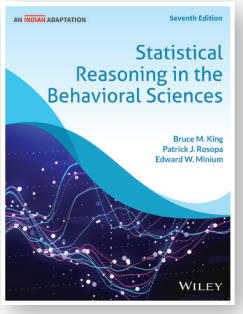
ABOUT THE BOOK

Unlike any other book of its kind, Industrial and Organizational Psychology: Research and Practice provides an extensive and clear overview of the field, without overwhelming today's I/O Psychology student. Author Paul Spector provides readers with (1) cutting edge content and includes new and emerging topics, such as occupational health and safety and (2) a global perspective of the field. Industrial and Organizational Psychology: Research and Practice, 6th Edition is available in alternate versions (eBooks and custom) for professors and students.

TABLE OF CONTENTS

• Assessment of Jobs, Performance and People. • Selecting and Training Employees. • The Individual and the Organization. • The Social Context of Work.

9788126558599 | Pages: 464 | ₹ 870



Statistical Reasoning in the Behavioral Sciences, 7ed (An Indian Adaptation) | e | IM

Bruce M. King, Patrick J. Rosopa, Edward W. Minium, Dr. Preeti Kapur, Shreya Dubey

ABOUT THE AUTHOR

Bruce King was a faculty member at the University of New Orleans from 1978 to 2007 and is presently at Clemson University. He has been honored as a Fellow in the Association for Psychological Science, American Psychological Association, and International Behavioral Neuroscience Society.

Patrick J. Rosopa is an Associate Professor at Clemson University. He has published in various peer-reviewed journals including Psychological Methods, Organizational Research Methods, Journal of Modern Applied Statistical Methods, Journal of Managerial Psychology, and Human Resource Management Review. Currently, he serves on the editorial board of Organizational Research Methods, Journal of Managerial Psychology, and Research in Human Resource Management.

Edward W. Minimum was a faculty member at San José State University from 1948 to 1982 and served as chair of the Department of Psychology from 1961 to 1966. He was the only author for the first two editions of this textbook, which was first published in 1970.

Dr. Preeti Kapur

Associate Professor (Retd)

Department of Psychology, Daulat Ram College, University of Delhi, Delhi, India

Shreya Dubey

Phd Candidate

University of Amsterdam, Amsterdam School of Communication Research (ASCoR), Amsterdam, The Netherlands

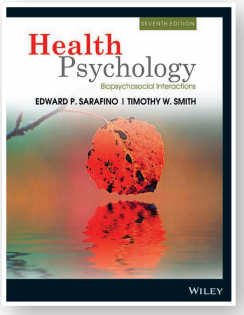
ABOUT THE BOOK

Statistical Reasoning in the Behavioral Sciences, 7th Edition continues to provide streamlined resources and easy-to-understand information on statistics in the behavioral sciences and related fields, including psychology, education, human resources management, and sociology. Students and professionals in the behavioral sciences will develop an understanding of statistical logic and procedures, the properties of statistical devices, and the importance of the assumptions underlying statistical tools. The contents of the Adapted Edition have been restructured and enhanced to fit the Indian context.

TABLE OF CONTENTS

• Introduction • Frequency Distributions, Percentiles, And Percentile Ranks • Graphic Representation of Frequency Distributions • Central Tendency • Variability and Standard (Z) Scores • Standard Scores and The Normal Curve • Correlation • Prediction • Interpretive Aspects of Correlation and Regression • Probability • Random Sampling and Sampling Distributions • Introduction to Statistical Inference: Testing Hypotheses About A Single Mean (Z) • Testing Hypotheses About a Single Mean When ?? Is Unknown (T) • Interpreting the Results of Hypothesis Testing: Effect Size, Type I And Type Ii Errors, And Power • Testing Hypotheses About the Difference Between Two Independent Groups • Testing for A Difference Between Two Dependent (Correlated) Groups • Inference About Correlation Coefficients • An Alternative to Hypothesis Testing: Confidence Intervals • Testing for Differences Among Three Or More Groups: One-Way Analysis Of Variance (And Some Alternatives) • Factorial Analysis of Variance: The Two-Factor Design • Chi-Square and Inference About Frequencies • Some (Almost) Assumption-Free Tests

9789357460590 | Pages: 488 | ₹ 1019



Health Psychology: Biopsychosocial Interaction, 7ed

Edward P. Sarafino, Timothy W. Smith

ABOUT THE BOOK

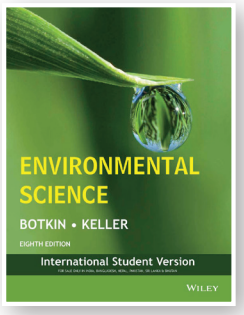
Sarafino draws from the research and theory of many disciplines in order to show psychologists how psychology and health affect each other. The new edition has been updated to include new research and data. New discussions are included on health care systems. Significant new information is also presented on prevention and intervention, especially for teens' risky behaviors. In addition, international examples are included to broaden the psychologist's view of health issues around the world and highlight what works in the field.

TABLE OF CONTENTS

• Part I An Introduction: Basic Issues and Processes. • Part II Stress, Illness, and Coping. • Part III Lifestyles to Enhance Health and Prevent Illness. • Part IV Becoming Ill and Getting Medical Treatment. • Part V Physical Symptoms: Pain and Discomfort. • Part VI Chronic and Life-Threatening Health Problems. • Part VII Looking to the Future.

9788126531813 | Pages: 552 | ₹ 979

ENVIRONMENTAL SCIENCE



Environmental Science, 8ed, ISV | e

Botkin, Keller

ABOUT THE AUTHOR

Daniel B. Botkin is President of The Center for the Study of Environment and Professor Emeritus of Ecology, Evolution and Marine Biology, University of California, Santa Barbara. For more than three decades, Professor Botkin has been active in the application of ecological science to environmental management. He is the winner of the Mitchell International Prize for Sustainable Development and the Fernow Prize for International Forestry, and he has been elected to the California Environmental hall of fame.

Trained in physics and biology, Professor Botkin is a leader in the application of advanced technology to the study of the environment. The originator of widely used forest gap-models, his research has involved endangered species, characteristics of natural wilderness areas, the study of the biosphere, and attempts to deal with global

environmental problems. During his career, Professor Botkin has advised the World Bank about tropical forests, biological diversity, and sustainability, the Rockefeller Foundation about global environmental issues, the government of Taiwan about approaches to solving environmental problems; and the state of California on the environmental effects of water diversion on Mono Lake.

ABOUT THE BOOK

Environmental Science: Earth as a Living Planet, Eighth Edition provides emphasis on the scientific process throughout the book and gives readers the structure to develop their critical thinking skills. Updated and revised to include the latest research in the field, the eighth edition continues to present a balanced analytical and interdisciplinary approach to the field. New streamlined text clears away the ""jargon"" to bring the issues and the science to the forefront. The new design and updated image program highlights key points and makes the book easier to navigate.

TABLE OF CONTENTS

• Key Themes in Environmental Science • Science as A Way of Knowing • The Big Picture: Systems of Change • The Human Population and The Environment • Ecosystems • The Biogeochemical Cycle • Dollars and Environmental Sense • Biological Diversity and Biological Invasions • Ecological Restoration • Environmental Heath, Pollution, and Toxicology • Agriculture, Aquaculture, and The Environment • Landscapes: Forests, Parks, and Wilderness • Wildlife, Fisheries, and Endangered Species • Energy: Some Basics • Fossil Fuels and The Environment • Alternative Energy and The Environment • Nuclear Energy and The Environment • Water Supply, Use, and Management • Water Pollution and Treatment • The Atmosphere, Climate, and Global Warming • Air Pollution • Urban Environments • Materials Management • Our Environmental Future

9788126534142 | Pages: 604 | ₹ 1259



Environmental Science, 2ed

ABOUT THE BOOK

This book is designed to meet the requirements of students who are inquisitive to learn about the key issues related to the environment. It provides an up-to-date introduction to study of environment and aims to familiarize the students with operational definitions and realistic classifications in the study of environment. It highlights the interdisciplinary perspective of the subject and integrates the natural sciences with environmental laws, impact, planning and management. It aims to create sensitivity in students towards environmental issues and motivates them to think through environmental problems.

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• Introduction to Environmental Science • Toxicological Chemistry • Environmental Chemical Analysis • Humans and Sustainability: Ecology and Biodiversity • Policy and Legislation

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NORTH

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SCAN TO VIEW NEW RELEASES

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