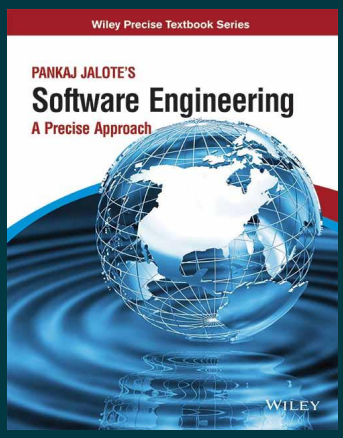
WILEY



Pankaj Jalote's Software Engineering: A Precise Approach

By Pankaj Jalote

Paperback 9788126523115 **₹978.00**

Pages: 314

Description

This is an excellent introductory book on Software Engineering - a subject which is one of the hardest to teach since it is such a vast field with a wide range of topics. The book focuses on key tasks in two dimensions - engineering and project management - and discusses concepts and techniques that can be applied to effectively execute these tasks. It covers Engineering issues like requirements analysis and specification, architecture design, module level design, coding and unit testing, and testing as well as Project Management issues like project planning and project monitoring and control.

About the Author

Pankaj Jalote

Pankaj Jalote has recently joined as Director of the newly created Indraprastha Institute of Information Technology (IIIT) Delhi.

Pankaj Jalote is a fellow of the IEEE and on the Board of Advisors of many software companies in India and USA

Table of Contents

Chapter 1: The Software Problem

· Cost, Schedule and Quality

· Scale and Change

Chapter 2: Software Processes

· Process and Project

· Component Software Processes

· Software Development Process Models

· Project Management Process

Chapter 3: Software Requirements Analysis and Specification

· Value of a Good SRS

· Requirement Process

· Requirements Specification

· Functional Specification with Use Cases

· Other Approaches for Analysis

· Validation

Chapter 4: Software Architecture

· Role of Software Architecture

· Architecture Views

· Component and Connector View

· Architecture Styles for C&C View

· Documenting Architecture Design

· Evaluating Architectures

Chapter 5: Planning a Software Project-4

· Effort Estimation

· Project Schedule and Staffing

· Quality Planning

· Risk Management Planning

· Project Monitoring Plan

· Detailed Scheduling

Chapter 6: Design

· Design Concepts

· Function-Oriented Design

· Object-Oriented Design

· Detailed Design

· Verification

· Metrics

Chapter 7: Coding and Unit Testing

· Programming Principles and Guidelines

· Incrementally Developing Code

· Managing Evolving Code

· Unit Testing

· Code Inspection

· Metrics

Chapter 8: Testing

· Testing Concepts

· Testing Process

· Black-Box Testing

· White-Box Testing

· Metrics

Summary

Self-Assessment Exercises

Frequently Asked Questions

Bibliography

Index

To purchase this product, please visit:
https://www.wileyindia.com/pankaj-jalote-s-software-engineering-a-precise-approach.html

Scan to buy