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# Software Engineering By Pankaj Jalote

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Fault Tolerance in Distributed Systems Springer Science & Business Media

The concept of processes is at the heart of software and systems engineering. Software

process models integrate software engineering methods and techniques and are the basis for managing large-scale software and IT projects. High product quality routinely results from high process quality. Software process management deals with getting and maintaining control over processes and their evolution. Becoming acquainted with existing software process models is not enough, though. It is important to understand

how to select, define, manage, deploy, evaluate, and systematically evolve software process models so that they suitably address the problems, applications, and environments to which they are applied. Providing basic knowledge for these important tasks is the main goal of this textbook. Münch and his co-authors aim at providing knowledge that enables readers to develop useful process models that are suitable for their own

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purposes. They start with the basic concepts. Subsequently, existing representative process models are introduced, followed by a description of how to create individual models and the necessary means for doing so (i.e., notations and tools). Lastly, different possible usage scenarios for process management are highlighted (e.g. process improvement and software process simulation). Their book is aimed at students and researchers working on software project management, software quality assurance, and software measurement; and at practitioners who are interested in process definition and management for developing, maintaining, and operating software-intensive systems and services.

### **Software Engineering Concepts**

**Springer Science & Business Media**  
Long-awaited revision to a unique guide that covers both compilers and interpreters Revised, updated, and now focusing on Java instead of

**C++**, this long-awaited, latest edition of this popular book teaches programmers and software engineering students how to write compilers and interpreters using Java. You?ll write compilers and interpreters as case studies, generating general assembly code for a Java Virtual Machine that takes advantage of the Java Collections Framework to shorten and simplify the code. In addition, coverage includes Java Collections Framework, UML modeling, object-oriented programming with design patterns, working with XML intermediate code, and more.

*Real-Time Systems* Addison-Wesley Professional

Project initiation; Project planning;  
Project execution and termination.  
Guide to Competitive Programming  
清华大学出版社有限公司

This invaluable textbook presents a comprehensive introduction to modern competitive programming. The text highlights how competitive programming has proven to be an excellent way to learn algorithms, by encouraging the design of algorithms that actually work, stimulating the improvement of

programming and debugging skills, and reinforcing the type of thinking required to solve problems in a competitive setting. The book contains many “folklore” algorithm design tricks that are known by experienced competitive programmers, yet which have previously only been formally discussed in online forums and blog posts. Topics and features: reviews the features of the C++ programming language, and describes how to create efficient algorithms that can quickly process large data sets; discusses sorting algorithms and binary search, and examines a selection of data structures of the C++ standard library; introduces the algorithm design technique of dynamic programming, and investigates elementary graph algorithms; covers such advanced algorithm design topics as bit-parallelism and amortized analysis, and presents a focus on efficiently processing array range queries; surveys specialized algorithms for trees, and discusses the mathematical topics that are relevant in competitive programming; examines advanced graph techniques, geometric algorithms, and string techniques; describes a selection of more advanced topics, including square root algorithms and dynamic programming optimization. This easy-to-follow guide is an ideal reference for all students wishing to learn algorithms, and practice for programming contests. Knowledge of the basics of programming is assumed, but previous background in algorithm design or programming contests is not necessary. Due to the broad range of topics covered at various levels of difficulty, this book is suitable for both beginners and more experienced readers.

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## **An Integrated Approach to Software**

**Engineering** Springer Science & Business Media

This textbook mainly addresses beginners and readers with a basic knowledge of object-oriented programming languages like Java or C#, but with little or no modeling or software engineering experience – thus reflecting the majority of students in introductory courses at universities. Using UML, it introduces basic modeling concepts in a highly precise manner, while refraining from the interpretation of rare special cases. After a brief explanation of why modeling is an indispensable part of software development, the authors introduce the individual diagram types of UML (the class and object diagram, the sequence diagram, the state machine diagram, the activity diagram, and the use case diagram), as well as their interrelationships, in a step-by-step manner. The topics covered include not only the syntax and the semantics of the individual language elements, but also pragmatic aspects, i.e., how to use them wisely at various stages in the software development process. To this end, the work is complemented with examples that were carefully selected for their educational and illustrative value. Overall, the book provides a solid foundation and deeper understanding of the most important object-oriented modeling concepts and their application in software development. An additional website offers a complete set of slides to aid in teaching the contents of the book, exercises and further e-learning material.

Software Engineering Farrar, Straus and Giroux

This revision of the bestselling software requirements book reflects the new way of categorizing software requirements techniques--objects, functions, and states. The author takes an analytical approach by helping the reader analyze which technique is best, rather than imposing one specific technique.

*Component-Based Software Engineering*  
John Wiley & Sons

Índice abreviado: General techniques -- Objects and equality -- Exception handling -- Performance -- Multithreading -- Classes and interfaces -- Appendix: learning Java.

**PANKAJ JALOTE'S SOFTWARE ENGINEERING: A PRECISE APPROACH**  
Alpha Science Int'l Ltd.

For almost four decades, *Software Engineering: A Practitioner's Approach (SEPA)* has been the world's leading textbook in software engineering. The ninth edition represents a major restructuring and update of previous editions, solidifying the book's position as the most comprehensive guide to this important subject.

Engineering Biostatistics **PANKAJ JALOTE'S SOFTWARE ENGINEERING: A PRECISE APPROACH**

The presence and use of real-time systems is

becoming increasingly common. Examples of such systems range from nuclear reactors, to automotive controllers, and also entertainment software such as games and graphics animation. The growing importance of rea. CMM in Practice Addison-Wesley Professional  
**PANKAJ JALOTE'S SOFTWARE ENGINEERING: A PRECISE APPROACH** John Wiley & Sons

*UML @ Classroom* Springer

This excellent addition to the UTiCS series of undergraduate textbooks provides a detailed and up to date description of the main principles behind the design and implementation of modern programming languages. Rather than focusing on a specific language, the book identifies the most important principles shared by large classes of languages. To complete this general approach, detailed descriptions of the main programming paradigms, namely imperative, object-oriented, functional and logic are given, analysed in depth and compared. This provides the basis for a critical understanding of most of the programming languages. An historical viewpoint is also included, discussing the evolution of programming languages, and to provide a context for most of the

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constructs in use today. The book concludes with two chapters which introduce basic notions of syntax, semantics and computability, to provide a completely rounded picture of what constitutes a programming language. /div

**SOFTWARE ENGINEERING** New Age International

With the emergence of global university rankings, there is increased interest in research universities. The focus of the higher education system in India has traditionally been on educating students and not on research. However, in the last decade or so, there has been a growing appreciation of research in universities and interest in transforming some of the Indian universities to globally competitive research universities. This is the first book that focuses on building research universities in India. It provides a comprehensive and holistic view of a research university and discusses the key dimensions of such a university, including education, research, PhD programme, faculty management, governance, financing and third mission. This book will be of interest to academicians, academic leaders, policymakers, and those who are involved in developing a university in India.

*Fundamentals of Software Engineering* CRC Press

This book presents a collection of research papers that address the challenge of how to develop software in a principled way that, in particular, enables reasoning. The individual papers approach this challenge from various perspectives including programming languages, program verification, and the systematic variation of software. Topics covered include programming abstractions for concurrent and distributed software, specification and verification techniques for imperative programs, and development techniques for software product lines. With this book the editors and authors wish to acknowledge – on the occasion of his 60th birthday – the work of Arnd Poetzsch-Heffter, who has made major contributions to software technology throughout his career. It features articles on Arnd's broad research interests including, among others, the implementation of programming languages, formal semantics, specification and verification of object-oriented and concurrent programs, programming language design, distributed systems,

software modeling, and software product lines. All contributing authors are leading experts in programming languages and software engineering who have collaborated with Arnd in the course of his career. Overall, the book offers a collection of high-quality articles, presenting original research results, major case studies, and inspiring visions. Some of the work included here was presented at a symposium in honor of Arnd Poetzsch-Heffter, held in Kaiserslautern, Germany, in November 2018.

*Navigating the Labyrinth*: Addison-Wesley Longman

**KEY BENEFIT:** A comprehensive introduction to the tools and skills required for both client- and server-side programming, that teaches how to develop platform-independent sites using the most current Web development technology. **KEY TOPICS:** Internet introduction; Web Browsers and Servers; URL; MIME; HTTP; Web Programmer's Toolbox; HTML and XHTML; CSS; JavaScript(TM); XML and XLST; Applets; Flash; Perl(TM)/CGI; Java Web Programming; PHP; ASP.NET Using C# and Ajax; Visual Studio; Database Access through the Web; Ruby; Rails 2.0; Ajax. **MARKET:** An ideal reference for Web programming professionals.

*Bland Fanatics* Springer Science & Business

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## Media

Fault tolerance is an approach by which reliability of a computer system can be increased beyond what can be achieved by traditional methods. Comprehensive and self-contained, this book explores the information available on software supported fault tolerance techniques, with a focus on fault tolerance in distributed systems.

**Cyber Security Engineering** Sage Publications Pvt. Limited

Software Quality Assurance (SQA) as a professional domain is becoming increasingly important. This book provides practical insight into the topic of Software Quality Assurance. It covers discussion on the importance of software quality assurance in the business of Information Technology, covers key practices like Reviews, Verification & Validation. It also discusses people issues and other barriers in successful implementation of Quality Management Systems in organization. This work presents methodologies, concepts as well as practical scenarios while deploying Quality Assurance practices and integrates the underlying principle into a complete reference book on this topic. -- Publisher description.

**Software Quality Engineering** PHI

## Learning Pvt. Ltd.

A decade ago nobody could have imagined the crucial role that software would play in our everyday life. The artificial boundaries between hardware, software, telecommunication, and many other disciplines are getting blurred very rapidly. This book presents the essentials of theory and practice of software engineering in an abstracted form. Presenting the information based on software development life cycle, the text guides the students through all the stages of software production—Requirements, Designing, Construction, Testing and Maintenance. Key Features : Emphasizes on non-coding areas Includes appendices on “need to know” basis Makes the learning easier as organized by software development life cycle This text is well suited for academic courses on Software Engineering or for conducting training programmes for software professionals. This book will be equally useful to the instructors of software engineering as well as busy professionals who wish to grasp the essentials of software engineering without attending a formal instructional course.

## *Sets, Logic and Maths for Computing* Springer Science & Business Media

This easy-to-follow textbook introduces the mathematical language, knowledge and problem-solving skills that undergraduates need to study computing. The language is in part qualitative, with concepts such as set, relation, function and recursion/induction; but it is also partly quantitative, with principles of counting and finite probability. Entwined with both are the fundamental notions of logic and their use for representation and proof. Features: teaches finite math as a language for thinking, as much as knowledge and skills to be acquired; uses an intuitive approach with a focus on examples for all general concepts; brings out the interplay between the qualitative and the quantitative in all areas covered, particularly in the treatment of recursion and induction; balances carefully the abstract and concrete, principles and proofs, specific facts and general perspectives; includes highlight boxes that raise common queries and clear confusions; provides numerous exercises, with selected solutions.

*Software Requirements* Pearson Education India

This textbook on Python 3 explains concepts such as variables and what they represent, how data is held in memory, how a for loop works and what a string is. It also introduces key concepts such as functions,

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modules and packages as well as object orientation and functional programming.

Each section is prefaced with an introductory chapter, before continuing with how these ideas work in Python. Topics such as generators and coroutines are often misunderstood and these are explained in detail, whilst topics such as Referential Transparency, multiple inheritance and exception handling are presented using examples. A Beginners Guide to Python 3 Programming provides all you need to know about Python, with numerous examples provided throughout including several larger worked case studies illustrating the ideas presented in the previous chapters.

**Computer, Network, Software, and Hardware Engineering with Applications** Springer Science & Business Media

The book provides a clear understanding of what software reuse is, where the problems are, what benefits to expect, the activities, and its different forms. The reader is also given an overview of what software components are, different kinds of components and compositions, a taxonomy

thereof, and examples of successful component reuse. An introduction to software engineering and software process models is also provided.