Principles Of Software Engineering

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Principles, Processes, Methods, and Tools

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Software Engineering 1 Morgan Kaufmann
Software Engineer's Reference Book provides the fundamental principles and general approaches, contemporary information, and applications for developing the software of computer systems. The book is comprised of three main parts, an epilogue, and a comprehensive index. The first part covers the theory of computer science and relevant mathematics. Topics under this section include logic, set theory, Turing machines, theory of computation, and computational complexity. Part II is a discussion of software development methods, techniques and technology primarily based around a conventional view of the software life cycle. Topics discussed include methods such as CORE, SSADM, and SREM, and formal methods including VDM and Z. Attention is also given to other technical activities in the life cycle including testing and prototyping. The final part describes the techniques and standards which are relevant in producing particular classes of application. The text will be of great use to software engineers, software project managers, and students of computer science.
Domains, Requirements, and Software Design Prentice Hall
What others in the trenches say about The Pragmatic Programmer... “The cool thing about this book is that it’s great for keeping the programming process fresh. The book helps you to continue to grow and clearly comes from people who have been there.” —Kent Beck, author of Extreme Programming Explained: Embrace Change “I found this book to be a great mix of solid advice and wonderful analogies!” —Martin Fowler, author of Refactoring and UML Distilled “I would buy a copy, read it twice, then tell all my colleagues to run out and grab a copy. This is a book I would never loan because I would worry about it being lost.” —Kevin Ruland, Management Science, MSG-Logistics “The wisdom and practical experience of the authors is obvious. The topics presented are relevant and useful.... By far its greatest strength for me has been the outstanding analogies—tracer bullets, broken windows, and the fabulous helicopter-based explanation of the need for orthogonality, especially in a crisis situation. I have little doubt that this book will eventually become an excellent source of useful information for journeymen programmers and expert mentors alike.” —John Lakos, author of Large-Scale C++ Software Design “This is the sort of book I will buy a dozen copies of when it comes out so I can give it to my clients.” —Eric Vought, Software Engineer “Most modern books on software development fail to cover the basics of what makes a great software developer, instead spending their time on syntax or technology where in reality the greatest leverage possible for any software team is in having talented developers who really know their craft well. An excellent book.” —Pete McBreen, Independent Consultant “Since reading this book, I have implemented many of the practical suggestions and tips it contains. Across the board, they have saved my company time and money while helping me get my job done quicker! This should be a desktop reference for everyone who works with code for a living.” —Jared Richardson, Senior Software Developer, iRenaissance, Inc. “I would like to see this issued to every new employee at my company....” —Chris Cleeland, Senior Software Engineer, Object Computing, Inc. “If I’m putting together a project, it’s the authors of this book that I want. . . . And failing that I’d settle for people who’ve read their book.” —Ward Cunningham Straight from the programming trenches, The Pragmatic Programmer cuts through the increasing specialization and technicalities of modern software development to examine the core process--taking a requirement and producing working, maintainable code that delights its users. It covers topics ranging from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll learn how to Fight software rot; Avoid the trap of duplicating knowledge; Write flexible, dynamic, and adaptable code; Avoid programming by coincidence; Bullet-proof your code with contracts, assertions, and exceptions; Capture real requirements; Test ruthlessly and effectively; Delight your users; Build teams of pragmatic programmers; and Make your developments more precise with automation. Written as a series of self-contained sections and filled with entertaining anecdotes, thoughtful examples, and interesting analogies, The Pragmatic Programmer illustrates the best practices and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that form the foundation for long-term success in your career. You'll become a Pragmatic Programmer.
Model-Driven Engineering of Information Systems Vikas Publishing House
Software -- Software Engineering.
Abstraction and Modelling Elsevier
"Principles and Practices of Software Engineering is a comprehensive and detailed text in the area of software engineering. It includes topics on software quality, software testing and metrics. There is a complete chapter on project estimation and scope. This text has been designed keeping in mind the syllabus currently being followed for undergraduate and postgraduate programmes of the leading universities for their technical courses." -- Provided by publisher.
Artificial Intelligence and Software Engineering IEEE Computer Society
Teaches readers how to test and analyze software to achieve an acceptable level of quality at an acceptable cost Readers will be able to minimize software failures, increase quality, and effectively manage costs Covers techniques that are suitable for near-term application, with sufficient technical background to indicate how and when to apply them Provides balanced coverage of software testing & analysis approaches By incorporating modern topics and strategies, this book will be the standard software-testing textbook
Process, Principles and Techniques Addison-Wesley Professional
First published in 1998. Routledge is an imprint of Taylor & Francis, an informa company.
Automotive Software Engineering Springer Science & Business Media

Explore the latest Java-based software development techniques and methodologies through the project-based approach in this practical guide. Unlike books that use abstract examples and lots of theory, Real-World Software Development shows you how to develop several relevant projects while learning best practices along the way. With this engaging approach, junior developers capable of writing basic Java code will learn about state-of-the-art software development practices for building modern, robust and maintainable Java software. You'll work with many different software development topics that are often excluded from software develop how-to references. Featuring real-world examples, this book teaches you techniques and methodologies for functional programming, automated testing, security, architecture, and distributed systems.

Software Engineer's Reference Book Principles of Software Engineering and Design

"This book represents a thorough and extensive treatment of the software build process including the choices, benefits, and challenges of a well designed build process. I recommend it not only to all software build engineers but to all software developers since a well designed build process is key to an effective software development process." —Kevin Bodie, Director Software Development, Pitney Bowes Inc. "An excellent and detailed explanation of build systems, an important but often overlooked part of software development projects. The discussion of productivity as related to build systems is, alone, well worth the time spent reading this book." —John M. Pantone, Objectech Corporation, VP, IT Educator and Course Developer "Peter Smith provides an interesting and accessible look into the world of software build systems, distilling years of experience and covering virtually every type of tool in the build engineer's toolbox. Well organized, well written, and very thorough; I would recommend this book to anyone with a build system under their responsibility." —Jeff Overbey, Project Co-Lead, Photran "Software Build Systems teaches how to think about building software. It surveys the tools and techniques for building software products and the ways things go wrong. This book will appeal to those new to build systems as well as experienced build system engineers." —Monte Davidoff, Software Development Consultant, Alluvial Software, Inc. Inadequate build systems can dramatically impact developer productivity. Bad dependencies, false compile errors, failed software images, slow compilation, and time-wasting manual processes are just some of the byproducts of a subpar build system. In Software Build Systems, software productivity expert Peter Smith shows you how to implement build systems that overcome all these problems, so you can deliver reliable software more rapidly, at lower cost. Smith explains the core principles underlying highly efficient build systems, surveying both system features and usage scenarios. Next, he encapsulates years of experience in creating and maintaining diverse build systems–helping you make well-informed choices about tools and practices, and avoid common traps and pitfalls. Throughout, he shares a wide range of practical examples and lessons from multiple environments, including Java, C++, C, and C#. Coverage includes • Mastering build system concepts, including source trees, build tools, and compilation tools • Comparing five leading build tools: GNU Make, Ant, SCons, CMake, and the Eclipse IDE's integrated build features • Ensuring accurate dependency checking and efficient incremental compilation • Using metadata to assist debugging, profiling, and source code documentation • Packaging software for installation on your target machine • Best practices for managing complex version-control systems, build machines, and compilation tools If you're a developer, this book will illuminate the issues involved in building and maintaining the build system that's best for your team. If you're a manager, you'll discover how to evaluate your team's build system and improve its effectiveness. And if you're a build "guru," you'll learn how to optimize the performance and scalability of your build system, no matter how demanding your requirements are.

Head First Software Development CRC Press

Software engineering deals with designing codes and programs for universal audience or customized application for a small organization. Softwares are designed with the help of programming languages such as java, C++, and COBOL. This book primarily deals with the core subjects of software engineering such as knowledge acquisition, automated software design and synthesis, automated software specification, software design methods, software domain modeling and meta-modeling, software engineering decision support, etc. The various advancements in this field are glanced at and their applications as well as ramifications are looked at in detail. This book elucidates the principles, concepts and innovative models around prospective developments with respect to this discipline. Students, researchers, experts and all associated with software engineering will benefit alike from this book.

From Journeyman to Master Pearson Education

This revised edition of Software Engineering-Principles and Practices has become more comprehensive with the inclusion of several topics. The book now offers a complete understanding of software engineering as an engineering discipline. Like its previous edition, it provides an in-depth coverage of fundamental principles, methods and applications of software engineering. In addition, it covers some advanced approaches including Computer-aided Software Engineering (CASE), Component-based Software Engineering (CBSE), Clean-room Software Engineering (CSE) and formal methods.Taking into account the needs of both students and practitioners, the book presents a pragmatic picture of the software engineering methods and tools. A thorough study of the software industry shows that there exists a substantial difference between classroom study and the practical industrial application. Therefore, earnest efforts have been made in this book to bridge the gap between theory and practical applications. The subject matter is well supported by examples and case studies representing the situations that one actually faces during the software development process.The book meets the requirements of students enrolled in various courses both at the undergraduate and postgraduate levels, such as BCA, BE, BTech, BIT, BIS, BSc, PGDCA, MCA, MIT, MIS, MSc, various DOEACC levels and so on. It will also be suitable for those software engineers who abide by scientific principles and wish to expand their knowledge. With the increasing demand of software, the software engineering discipline has become important in education and industry. This thoughtfully organized second edition of the book provides its readers a profound knowledge of software engineering concepts and principles in a simple, interesting and illustrative manner.

Processes, Principles, and Patterns with UML2 Alpha Science International, Limited

This book is designed to help software engineers and project managers understand and solve problems involved in developing complex software systems. It provides guidelines and tools for managing the technical and organizational aspects of software engineering projects.

Methods and Principles Routledge
SEMAT (Software Engineering Methods and Theory) is an international initiative designed to identify a common ground, or universal standard, for software engineering. It is supported by some of the most distinguished contributors to the field. Creating a simple language to describe methods and practices, the SEMAT team expresses this common ground as a kernel–or framework–of elements essential to all software development. The Essence of Software Engineering introduces this kernel and shows how to apply it when developing software and improving a team's way of working. It is a book for software professionals, not methodologists. Its usefulness to development team members, who need to evaluate and choose the best practices for their work, goes well beyond the description or application of any single method. "Software is both a craft and a science, both a work of passion and a work of principle. Writing good software requires both wild flights of imagination and creativity, as well as the hard reality of engineering tradeoffs. This book is an attempt at describing that balance." —Robert Martin (unclebob) "The work of Ivar Jacobson and his colleagues, started as part of the SEMAT initiative, has taken a systematic approach to identifying a 'kernel' of software engineering principles and practices that have stood the test of time and recognition." —Bertrand Meyer "The software development industry needs and demands a core kernel and language for defining software development practices—practices that can be mixed and matched, brought on board from other organizations; practices that can be measured; practices that can be integrated; and practices that can be compared and contrasted for speed, quality, and price. This thoughtful book gives a good grounding in ways to think about the problem, and a language to address the need, and every software engineer should read it." —Richard Soley
Software Engg CRC Press
The book has been written according to the syllabus prescribed by the Directorate General of Employment and Training for the Craftsman Training Scheme and the Apprenticeship Training Scheme for the Electrical Trades (Electrician, Wireman and Lineman). The first volume covers what should be taught in the first year. The language is very simple and the concepts are explained with the help of clear illustrations. The theory is supported by practical applications of the concepts. A number of solved examples have been provided. At each chapter end is a set of unsolved numerical problems and review questions. Answers to these have been provided. These review questions are taken from the examination papers of the National Council for Vocational trades and from the All India Skill Competitions. This book will help trainees and apprentices prepare themselves for the final examination and for the job interviews. Key features Software estimation, software quality, software project management, risk management, COCOMO II model covered in detail. Discussions on software engineering tools, user interface issues, ISO 9001, and CMM. Cases and Term Projects. A case for study and analysis with questions for discussion related to the topics learnt at the end of each part. An integrated solution to the case using both the approaches-System and Object-Oriented-given at the end of the text. Three cases are given at the end of Part V, for the students to analyze and submit as term project.
Software Engineering Springer Science & Business Media
Concentrates on the design aspects of programming for software engineering, while also covers the full range of software development cycles.
The Pragmatic Programmer Independently Published
Since the early seventies, the development of the automobile has been characterized by a steady increase in the deploymnet of onboard electronics systems and software. This trend continues unabated and is driven by rising end-user demands and increasingly stringent environmental requirements. Today, almost every function onboard the modern vehicle is electronically controlled or monitored. The software-based implementation of vehicle functions provides for unparalleled freedoms of concept and design. However, automobile development calls for the accommodation of contrasting prerequisites - such as higher demands on safety and reliability vs. lower cost ceilings, longer product life cycles vs. shorter development times - along with growing proliferation of model variants. Automotive Software Engineering has established its position at the center of these seemingly conflicting opposites. This book provides background basics as well as numerous suggestions, rare insights, and cases in point concerning those processes, methods, and tools that contribute to the surefooted mastery of the use of electronic systems and software in the contemporary automobile.
AGILE PRIN PATTS PRACTS C#_1 Addison-Wesley
With the award-winning book Agile Software Development: Principles, Patterns, and Practices, Robert C. Martin helped bring Agile principles to tens of thousands of Java and C++ programmers. Now .NET programmers have a definitive guide to agile methods with this completely updated volume from Robert C. Martin and Micah Martin, Agile Principles, Patterns, and Practices in C#. This book presents a series of case studies illustrating the fundamentals of Agile development and Agile design, and moves quickly from UML models to real C# code. The introductory chapters lay out the basics of the agile movement, while the later chapters show proven techniques in action. The book includes many source code examples that are also available for download from the authors' Web site. Readers will come away from this book understanding Agile principles, and the fourteen practices of Extreme Programming Spiking, splitting, velocity, and planning iterations and releases Test-driven development, test-first design, and acceptance testing Refactoring with unit testing Pair programming Agile design and design smells The five types of UML diagrams and how to use them effectively Object-oriented package design and design patterns How to put all of it together for a real-world project Whether you are a C# programmer or a Visual Basic or Java programmer learning C#, a software development manager, or a business analyst, Agile Principles, Patterns, and Practices in C# is the first book you should read to understand agile software and how it applies to programming in the .NET Framework.
Lessons Learned from Programming Over Time Oxford University Press, USA
The final installment in this three-volume set is based on this maxim: "Before software can be designed its requirements must be well understood, and before the requirements can be expressed properly the domain of the application must be well understood." The book covers the process from the development of domain descriptions, through the derivation of requirements prescriptions from domain models, to the refinement of requirements into software architectures and component design.
201 Principles of Software Development "O'Reilly Media, Inc."
Today, software engineers need to know not only how to program effectively but also how to develop proper engineering practices to make their codebase sustainable and healthy. This book emphasizes this difference between programming and software

engineering. How can software engineers manage a living codebase that evolves and responds to changing requirements and demands over the length of its life? Based on their experience at Google, software engineers Titus Winters and Hyrum Wright, along with technical writer Tom Manshreck, present a candid and insightful look at how some of the world's leading practitioners construct and maintain software. This book covers Google's unique engineering culture, processes, and tools and how these aspects contribute to the effectiveness of an engineering organization. You'll explore three fundamental principles that software organizations should keep in mind when designing, architecting, writing, and maintaining code: How time affects the sustainability of software and how to make your code resilient over time How scale affects the viability of software practices within an engineering organization What trade-offs a typical engineer needs to make when evaluating design and development decisions

Engineering Principles and Software Engineering "O'Reilly Media, Inc."

This book takes a unique "processor-agnostic" approach to teaching the core course on microcontrollers or embedded systems, taught at most schools of electrical and computer engineering. Most books for this course teach students using only one specific microcontroller in the class. Cady,however, studies the common ground between microcontrollers in one volume. As there is no other book available to serve this purpose in the classroom, readership is broadened to anyone who accepts its pedagogical value, not simply those courses that use the same microcontroller. Because the text ispurposefully processor non-specific, it can be used with processor-specific material, such as manufacturer's data sheets and reference manuals, or with texts such as Software and Hardware Engineering: Motorola M68HC11 or Software and Hardware Engineering: Motorola M68HC12. The fundamental operationof standard microcontroller features such as parallel and serial I/O interfaces, interrupts, analog-to-digital conversion, and timers is covered, with attention paid to the electrical interfaces needed.

Real-World Software Development McGraw-Hill Education

This work aims to provide the reader with sound engineering principles, whilst embracing relevant industry practices and technologies, such as object orientation and requirements engineering. It includes a chapter on software architectures, covering software design patterns.

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