



Fundamentals of Software Engineering (2nd Edition)

By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli

Download now

Read Online 

Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli

This book provides selective, in-depth coverage of the fundamentals of software engineering by stressing principles and methods through rigorous formal and informal approaches. In contrast to other books which are based on the lifecycle model of software development, the authors emphasize identifying and applying fundamental principles that are applicable throughout the software lifecycle. This emphasis enables readers to respond to the rapid changes in technology that are common today. Principles and techniques are emphasized rather than specific tools—users learn why particular techniques should or should not be used. Understanding the principles and techniques on which tools are based makes mastering a variety of specific tools easier. The authors discuss principles such as design, specification, verification, production, management and tools. Now coverage includes: more detailed analysis and explanation of object-oriented techniques; the use of Unified Modeling Language (UML); requirements analysis and software architecture; Model checking—a technique that provides automatic support to the human activity of software verification; GQM—used to evaluate software quality and help improve the software process; Z specification language. For software engineers.

 [Download Fundamentals of Software Engineering \(2nd Edition\) ...pdf](#)

 [Read Online Fundamentals of Software Engineering \(2nd Editio ...pdf](#)

Fundamentals of Software Engineering (2nd Edition)

By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli

Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli

This book provides selective, in-depth coverage of the fundamentals of software engineering by stressing principles and methods through rigorous formal and informal approaches. In contrast to other books which are based on the lifecycle model of software development, the authors emphasize identifying and applying fundamental principles that are applicable throughout the software lifecycle. This emphasis enables readers to respond to the rapid changes in technology that are common today. Principles and techniques are emphasized rather than specific tools—users learn why particular techniques should or should not be used. Understanding the principles and techniques on which tools are based makes mastering a variety of specific tools easier. The authors discuss principles such as design, specification, verification, production, management and tools. Now coverage includes: more detailed analysis and explanation of object-oriented techniques; the use of Unified Modeling Language (UML); requirements analysis and software architecture; Model checking—a technique that provides automatic support to the human activity of software verification; GQM—used to evaluate software quality and help improve the software process; Z specification language. For software engineers.

Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli Bibliography

- Sales Rank: #803765 in Books
- Published on: 2002-09-29
- Original language: English
- Number of items: 1
- Dimensions: 8.90" h x 1.50" w x 7.00" l, 2.36 pounds
- Binding: Paperback
- 604 pages

 [Download Fundamentals of Software Engineering \(2nd Edition\) ...pdf](#)

 [Read Online Fundamentals of Software Engineering \(2nd Editio ...pdf](#)

Download and Read Free Online Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli

Editorial Review

From the Publisher

This volume provides selective, in-depth coverage of the fundamentals of software engineering -- stressing principles, methods, and rigorous formal and informal approaches.

From the Back Cover

The long-awaited second edition of **Fundamentals of Software Engineering** presents the fundamental principles of software engineering and illustrates the application of those principles in the different phases of software development. It stresses the importance of a rigorous approach to the practice of software engineering. Over 350 exercises are provided to aid in the comprehension of the material. Over 20 in-depth case studies show how to deal with the intricacies of real-world problems.

This second edition maintains the successful structure of the first edition and enhances the contents by adding treatment of recent developments in software engineering.

New coverage to this edition includes:

- More thorough treatment of object orientation
- Greater coverage of software architecture and components
- Introduction to modeling languages Z and UML
- Description and case study of requirements engineering
- New validation techniques, including model checking
- Quality improvement paradigms, including GQM and CMM
- More material on software processes, including the unified process
- Several new case studies on process, requirements, design, organization, and systems engineering
- A comprehensive supplement package, including an Instructor's Resource CD and a Companion Website.

About the Author

Carlo Ghezzi is a professor of computer science at the Politecnico di Milano, where he holds the chair of software engineering. He was named a Fellow of the Association for Computing Machinery in 2000 for his contributions to software engineering research.

Mehdi Jazayeri is a professor of computer science at the Technische Universität Wien, where he holds the chair of distributed systems. He spent many years in software development at several Silicon Valley companies, including 10 years at Hewlett-Packard Laboratories, Palo Alto, CA.

Dino Mandrioli is a professor of computer science at the Politecnico di Milano, where he holds the chair of theoretical computer science. His research interests are centered on the application of formal methods in the practice of software engineering.

Users Review

From reader reviews:

June Edwards:

Why don't make it to become your habit? Right now, try to ready your time to do the important act, like looking for your favorite publication and reading a publication. Beside you can solve your trouble; you can add your knowledge by the guide entitled Fundamentals of Software Engineering (2nd Edition). Try to the actual book Fundamentals of Software Engineering (2nd Edition) as your close friend. It means that it can for being your friend when you sense alone and beside that of course make you smarter than before. Yeah, it is very fortunated for yourself. The book makes you considerably more confidence because you can know every little thing by the book. So , we need to make new experience as well as knowledge with this book.

Evelyn Brown:

This book untitled Fundamentals of Software Engineering (2nd Edition) to be one of several books this best seller in this year, that is because when you read this reserve you can get a lot of benefit in it. You will easily to buy that book in the book retailer or you can order it through online. The publisher in this book sells the e-book too. It makes you more easily to read this book, as you can read this book in your Cell phone. So there is no reason to you to past this reserve from your list.

Laura Thompson:

Many people spending their period by playing outside together with friends, fun activity using family or just watching TV all day long. You can have new activity to enjoy your whole day by examining a book. Ugh, you think reading a book really can hard because you have to bring the book everywhere? It alright you can have the e-book, delivering everywhere you want in your Smartphone. Like Fundamentals of Software Engineering (2nd Edition) which is finding the e-book version. So , why not try out this book? Let's observe.

Maria Forshee:

Book is one of source of knowledge. We can add our expertise from it. Not only for students but additionally native or citizen require book to know the upgrade information of year to help year. As we know those ebooks have many advantages. Beside many of us add our knowledge, may also bring us to around the world. By book Fundamentals of Software Engineering (2nd Edition) we can consider more advantage. Don't someone to be creative people? For being creative person must choose to read a book. Only choose the best book that acceptable with your aim. Don't become doubt to change your life by this book Fundamentals of Software Engineering (2nd Edition). You can more appealing than now.

Download and Read Online Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli #S8R4520HKCJ

Read Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli for online ebook

Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli books to read online.

Online Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli ebook PDF download

Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli Doc

Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli Mobipocket

Fundamentals of Software Engineering (2nd Edition) By Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli EPub