

Ian Sommerville Software Engineering 7th Edition

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Introduction to Software Engineering Design Christopher John Fox 2006 The focus of Introduction to Software Engineering Design is the processes, principles and practices used to design software products. KEY TOPICS: The discipline of design, generic design processes, and managing design are introduced in Part I. Part II covers software product design, use case modeling, and user interface design. Part III of the book is its core and covers engineering data analysis, including conceptual modeling, and both architectural and detailed engineering design. MARKET: This book is for anyone interested in learning software design.

Software Engineering Ian Sommerville 1992 "Software Engineering" presents a broad perspective on software systems engineering, concentrating on widely-used techniques for developing large-scale software systems. This best-selling book covers a wide spectrum of software processes from initial requirements elicitation through design and development to system evolution. It supports students taking undergraduate and graduate courses in software engineering. The sixth edition has been restructured and updated, important new topics have been added and obsolete material has been cut. Reuse now focuses on component-based development and patterns; object-oriented design has a process focus and uses the UML; the chapters on requirements have been split to cover the requirements themselves and requirements engineering process; cost estimation has been updated to include the COCOMO 2 model.

PANKAJ JALOTE'S SOFTWARE ENGINEERING: A PRECISE APPROACH Pankaj Jalote 2010-01-01 The goal of this book is to introduce to the students a limited number of concepts and practices which will achieve the following two objectives: Teach the student the skills needed to execute a smallish commercial project. Provide the students necessary conceptual background for undertaking advanced studies in software engineering, through organized courses or on their own. This 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. The book is organized in a simple manner, with one chapter for each of the key tasks in a project. For engineering, these tasks are requirements analysis and specification, architecture design, module level design, coding and unit testing, and testing. For project management, the key tasks are project planning and project monitoring and control, but both are discussed together in one chapter on project planning as even monitoring has to be planned. In addition, one chapter clearly defines the problem domain of Software Engineering, and another Chapter discusses the central concept of software process which integrates the different tasks executed in a project. Each chapter opens with some introduction and clearly lists the chapter goals, or what the reader can expect to learn from the chapter. For the task covered in the chapter, the important concepts are first discussed, followed by a discussion of the output of the task, the desired quality properties of the output, and some practical methods and notations for performing the task. The explanations are supported by examples, and the key learnings are summarized in the end for the reader. The chapter ends with some self-assessment exercises. Finally, the book contains a question bank at the end which lists out questions with answers from major universities.

Hagenberg Research Bruno Buchberger 2009-05-29 Bruno Buchberger This book is a synopsis of basic and applied research done at the various research institutions of the Softwarepark Hagenberg in Austria. Starting with 15 coworkers in my Research Institute for Symbolic Computation (RISC), I initiated the Softwarepark Hagenberg in 1987 on request of the Upper Austrian Government with the objective of creating a scientific, technological, and economic impulse for the region and the international community. In the meantime, in a joint effort, the Softwarepark Hagenberg has grown to the current (2009) size of over 1000 R&D employees and 1300 students in six research institutions, 40 companies and 20 academic study programs on the bachelor, master's and PhD level. The goal of the Softwarepark Hagenberg is innovation of economy in one of the most important current technologies: software. It is the message of this book that this can only be achieved and guaranteed long term by "watering the root", namely emphasis on research, both basic and applied. In this book, we summarize what has been achieved in terms of research in the various research institutions in the Softwarepark Hagenberg and what research vision we have for the imminent future. When I founded the Softwarepark Hagenberg, in addition to the "watering the root" principle, I had the vision that such a technology park can only prosper if we realize the "magic triangle", i.e. the close interaction of research, academic education, and business applications at one site, see Figure 1.

Paperbound Books in Print Fall 1995 Reed Reference Publishing 1995-10

Software Engineering Best Practices Capers Jones 2009-11-05 Proven techniques for software engineering success This in-depth volume examines software engineering topics that are not covered elsewhere: the question of why software engineering has developed more than 2,500 programming languages; problems with traditional definitions of software quality; and problems with common metrics, "lines of code," and "cost per defect" that violate standard economic assumptions. The book notes that a majority of "new" projects are actually replacements for legacy applications, illustrating that data mining for lost requirements should be a standard practice. Difficult social engineering issues are also covered, such as how to minimize harm from layoffs and downsizing. Software Engineering Best Practices explains how to effectively plan, size, schedule, and manage software projects of all types, using solid engineering procedures. It details proven methods, from initial requirements through 20 years of maintenance. Portions of the book have been extensively reviewed by key engineers from top companies, including IBM, Microsoft, Unisys, and Sony. Manage Agile, hierarchical, matrix, and virtual software development teams Optimize software quality using JAD, OFD, TSP, static analysis, inspections, and other methods with proven success records Use high-speed functional metrics to assess productivity and quality levels Plan optimal organization, from small teams through more than 1,000 personnel

Books in Print 1977

Practical Contact Center Collaboration Ken Burnett 2011-05-10

Co-Evolution of Metamodels and Model Transformations Steffen Kruse 2015-09-01 Complexity is an essential property of software systems that increases in a non-linear fashion with the size of the software system. In software engineering, Model Driven Engineering (MDE) aims to alleviate this complexity by utilising models and modelling activities to raise the level of abstraction and to automate the production of artefacts. One specialised technique with this purpose is the model transformation, which allows the automated creation and modification of output models based on input models. As models and model transformations are used in a productive capacity, they underlie the same evolutionary pressure that conventionally build software systems do. Here the tight coupling between model transformations and metamodels becomes problematic, as changing the one often results in the need to check and adapt the other accordingly. This thesis presents an operator-based, stepwise approach to support software architects in the co-evolution of metamodels and model transformations. The approach allows the description of changes done to a metamodel and the automatic or semi-automatic resolution of the impact on related model transformations. Overall the effort needed for co-evolution is reduced.

Handbook of Bioequivalence Testing, Second Edition Sarfaraz K. Niazi 2014-10-29 As the generic pharmaceutical industry continues to grow and thrive, so does the need to conduct adequate, efficient bioequivalence studies. In recent years, there have been significant changes to the statistical models for evaluating bioequivalence. In addition, advances in the analytical technology used to detect drug and metabolite levels have made bioequivalence testing more complex. The second edition of Handbook of Bioequivalence Testing has been completely updated to include the most current information available, including new findings in drug delivery and dosage form design and revised worldwide regulatory requirements. New topics include: A historical perspective on generic pharmaceuticals New guidelines governing submissions related to bioequivalency studies, along with therapeutic code classifications Models of noninferiority Biosimilarity of large molecule drugs Bioequivalence of complementary and alternate medicines Bioequivalence of biosimilar therapeutic proteins and monoclonal antibodies New FDA guidelines for bioanalytical method validation Outsourcing and monitoring of bioequivalence studies The cost of generic drugs is rising much faster than in the past, partly because of the increased costs required for approval—including those for bioequivalence testing. There is a dire need to re-examine the science behind this type of testing to reduce the burden of development costs—allowing companies to develop generic drugs faster and at a lower expense. The final chapter explores the future of bioequivalence testing and proposes radical changes in the process of biowaivers. It suggests how the cost of demonstrating bioequivalence can be reduced through intensive analytical investigation and proposes that regulatory agencies reduce the need for bioequivalence studies in humans. Backed by science and updated with the latest research, this book is destined to spark continued debate on the efficacy of the current bioequivalence testing paradigm.

Ethics for the Information Age Michael Jay Quinn 2005 Ethics for the Information Age provides a balanced, impartial, and modern treatment of computer ethics.

Ethical theories are introduced early and used throughout the book to evaluate moral problems related to information technology, issues are examined from the point of view of multiple ethical theories to expose readers to various perspectives. Readers are encouraged to contemplate the ethical implications of decisions related to information technology and each their own conclusions.

Software Engineering Ian Sommerville 2004 This book discusses a comprehensive spectrum of software engineering techniques and shows how they can be applied

in practical software projects. This edition features updated chapters on critical systems, project management and software requirements.

Software Engineering : 7th Edition Ian Sommerville 2005

Software Architecture: A Case Based Approach Vasudeva Varma 2009-09

The Proceedings of the Twenty-Seventh SIGCSE Technical Symposium on Computer Science Education John Impagliazzo 1996

Validated Designs for Object-oriented Systems John Fitzgerald 2005-12-06 This book provides an introduction to practical formal modelling techniques in the context of object-oriented system design. It is aimed at both practising software engineers with some prior experience of object-oriented design/programming and at intermediate or advanced students studying object-oriented design or modelling in a short course. The following features make this book particularly attractive to potential instructors: § The relationship with UML and object-oriented programming makes it easy to integrate with the mainstream computing curriculum. Although the book is about formal methods, it does not have to be treated as a specialist topic. § The use of tools and an accessible modelling language improves student motivation. § The industry-based examples and case studies add to the credibility of the approach. § The light touch approach means that the material appeals to students with a wider range of abilities than is the case in a conventional formal methods text. § Support materials as listed above.

Extreme Programming and Agile Processes in Software Engineering Hubert Baumeister 2005-06-13 Extreme Programming has come a long way since its first use in the C3 project almost 10 years ago. Agile methods have found their way into the mainstream, and at the end of last year we saw the second edition of Kent Beck's book on Extreme Programming, containing a major refactoring of XP. This year, the 6th International Conference on Extreme Programming and Agile Processes in Software Engineering took place June 18–23 in Sheffield. As in the years before, XP 2005 provided a unique forum for industry and academic professionals to discuss their needs and ideas on Extreme Programming and agile methodologies. These proceedings reflect the activities during the conference which ranged from presentation of research papers, invited talks, posters and demonstrations, panels and activity sessions, to tutorials and workshops. Included are also papers from the Ph.D. and Master's Symposium which provided a forum for young researchers to present their results and to get feedback. As varied as the activities were the topics of the conference which covered the presentation of new and improved practices, empirical studies, experience reports and case studies, and last but not least the social aspects of agile methods. The papers and the activities went through a rigorous reviewing process. Each paper was reviewed by at least three Program Committee members and was discussed carefully among the Program Committee. Of 62 papers submitted, only 22 were accepted as full papers.

Gelukkig getrouwd gelukkig gescheiden Peter Hoefnagels 2010-03-04 De geactualiseerde editie van het onmisbare boek voor wie zijn echtscheiding niet tot een gevecht wil maken. Deze uitgave bevat alle noodzakelijke informatie over het ouderschapsplan, inclusief voorbeelden. Ook nieuw in deze editie is een praktische wegwijzer voor beide partners in de beginfase van een scheiding: van onschatbaar belang voor ouders én kinderen. Prof. Hoefnagels begon in 1974 als eerste met een echtscheidingsbemiddelingspraktijk en introduceerde zijn methode vervolgens in de advocatuur. Tegenwoordig is bemiddeling de normale procedure bij scheiden. Dit boek laat zien hoe scheidingsovereenkomsten worden gesloten en toont aan de hand van vele praktijkvoorbeelden hoe mensen, door samen te scheiden, er emotioneel en zakelijk beter aan toe zijn.

GENERIKUS PROGRAMOZÁS Osztálysablonok, Általános felépítésű függvények, Függvénynevek túlterhelése és Függvénysablonok Katona József 2016-04-05 E könyv a C++ nyelven történő objektumorientált szoftverfejlesztést megismertető sorozat harmadik kötete, mely sorozat gyakorlati példákon keresztül segíti a nyelv elsajátítását. Bízunk benne, hogy azok, akik végigolvassák a könyvet, és kidolgozzák a példákat, alkalmazás szintjén megismerik a C++ nyelvi elemei által adott lehetőségeket, a nyelv logikáját, az átláthatóbb szoftver készítést elvégző funkcióját és mélyebben elsajátítják az objektumorientált szemlélet alapjait, mely a hatékonyan szoftverfejlesztéshez elengedhetetlen. A bemutatott ismeretek gyakorlati példák illusztráltak, melyek a megértést és az alkalmazás elsajátítását is nagymértékben segítik. Jelen kötet a generikus programozásban használt osztálysablon, általános felépítésű függvényt, függvénynév túlterhelést, függvénysablon és ezen fogalmak kapcsolatát ismerteti, továbbá egy projekten keresztül lépésről-lépésre bemutatja ezeknek a nyelvi eszközöknek a használatát és jelentőségét.

DOI: 10.18395/generikus.programozas.2016

Objectgeointeerde software engineering Stiller 2002

Extreme Programming and Agile Processes in Software Engineering 2005

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International Conference on Computer Applications 2012 :: Volume 05 Kokula Krishna Hari K

Computernetwerken James F. Kurose 2003-01-01

Model Driven Architecture - Foundations and Applications Alan Hartman 2005-11-04 This book constitutes the refereed proceedings of the First European Conference, Workshops on Model Driven Architecture - Foundations and Applications, ECMDA-FA 2005, held in Nuremberg, Germany in November 2005. The 24 revised full papers presented, 9 papers from the applications track and 15 from the foundations track, were carefully reviewed and selected from 82 submissions. The latest and most relevant information on model driven software engineering in the industrial and academic spheres is provided. The papers are organized in topical sections on MDA development processes, MDA for embedded and real-time systems, MDA and component-based software engineering, metamodelling, model transformation, and model synchronization and consistency.

Objektumorientált szoftverfejlesztés alapjai Katona József E könyv a C++ nyelven történő objektumorientált szoftverfejlesztést megismertető sorozat első kötete, mely sorozat gyakorlati példákon keresztül segíti a nyelv elsajátítását. A könyv segítséget kíván nyújtani a programozók számára a nyelv megismerésében, kiemelve azokat a jellegzetességeket, amikre figyelniük kell a kódolás során, valamint nyelv pontos ismeretével egyben azt is, hogy miként lehet csökkenteni a hibalehetőségeket, megelőzni a helytelen működést a nyelv megfelelő alkalmazásával. A könyvben található példák továbbá segítséget nyújtanak az átlátható kód készítésében is. A sorozat a C++ nyelven történő programozás elsajátítását nem a legelejétől kívánja ismertetni, hanem támaszkodik egyrészt a C nyelv, az alapvető adatstruktúrák (dinamikus tömbök, láncolt listák, bináris fák) és algoritmusok (keresés, rendezés) ismeretére, valamint alapszintű programozói tudásra (például a vezérlési szerkezetek). Jelen kötet az objektumorientált szoftverfejlesztés alapjait mutatja be, ezen belül az objektumorientált programozás módszertanát, legfontosabb alapfogalmait, osztály, öröklés, példányosítás, objektum és más fontos fogalmakat, továbbá röviden bemutatja a szoftver modelleket és egy projekten keresztül lépésről-lépésre a Visual Studio Community fejlesztőkörnyezet használatát, melyben a bemutatott mintapélda implementálható és összeállítható, a futtatható kód elállítható. DOI: 10.18395/katona.kovari.objektumorientalt.gyakorlatorientalt.2015

OOIS 2001 Xingxu Wang 2012-12-06 Welcome to OOIS'01 and Calgary! This is the 7th International Conference on Object-Oriented Information Systems (OOIS) that focus on Object-Oriented and Web-Based Frameworks for Information Systems. In the last few years we've seen significant new development in this field, from one-off design technologies to reusable frameworks, and from web applications to bioinformatic systems. We perceive that information processing is one of the most important activities of human beings. Object-orientation and frameworks have been the main-stream technologies for design and implementation of large-scale and complex information systems. Recent research advances and industrial innovations in information systems modeling and Internet applications have explored the new trends in shifting information system vendors from component and system developers to services providers. Users of information systems are increasingly demanding higher performance, mobility, and personalization in order to realize the dream to access and obtain necessary information anywhere and anytime. The new development requires the investigation of new architectures, frameworks, processes, and inter-connectivity of information systems at society, organization, team, and personal levels. The OOIS'01 Proceedings has put together a program of 53 papers from leading researchers and practitioners in the field of object technology and information systems.

A C++ szabványos sablonkönyvtár (STL) adapter tárolói Katona József és Kovári Attila 2016-10-25 Jelen kötet a C++ szabványos sablonkönyvtár adapter tárolóit ismerteti. A könyv olvasása során megismerjük az adapter tárolók különböző tulajdonságait és eltérő működési módjait, amelyek biztosítják számunkra, hogy egy programozási feladatra hatékony, gyors és elegáns megoldást tudjunk nyújtani. Továbbá a könyv néhány projekten keresztül lépésről-lépésre bemutatja ezeknek a nyelvi eszközöknek a használatát és jelentőségét. A mintapélda a könyvsorozat első kötetében bemutatott Visual Studio Community fejlesztőkörnyezetben kerül megvalósításra, melyben a bemutatott mintapélda implementálható és összeállítható, a futtatható kód elállítható.

Globus® Toolkit 4 Borja Sotomayor 2006-01-26 The Globus Toolkit is a key technology in Grid Computing, the exciting new computing paradigm that allows users to share processing power, data, storage, and other computing resources across institutional and geographic boundaries. Globus Toolkit 4: Programming Java Services provides an introduction to the latest version of this widely acclaimed toolkit. Based on the popular web-based The Globus Toolkit 4 Programmer's Tutorial, this book far surpasses that document, providing greater detail, quick reference appendices, and many additional examples. If you're making the leap into Grid Computing using the Globus Toolkit, you'll want Globus Toolkit 4: Programming Java Services at your side as you take your first steps. Written for newcomers to Globus Toolkit, but filled with useful information for experienced users. Clearly situates Globus application development within the context of Web Services and evolving Grid standards. Provides detailed coverage of Web Services programming with the Globus Toolkit's Java WS Core component. Covers basic aspects of developing secure services using the Grid Security Infrastructure (GSI). Uses simple, didactic examples throughout the book, but also includes a more elaborate example, the FileBuy application, that showcases common design patterns found in Globus applications. Concludes with useful reference appendices.

Ontology-Based Multi-Agent Systems Maja Hadzic 2009-06-25 During the last two decades, the idea of Semantic Web has received a great deal of attention. An extensive body of knowledge has emerged to describe technologies that seek to help us create and use aspects of the Semantic Web. Ontology and agent-based technologies are understood to be the two important technologies here. A large number of articles and a number of books exist to describe the use individually of the two technologies and the design of systems that use each of these technologies individually, but little focus has been given on how one can design systems that carry out integrated use of the two different technologies. In this book we describe ontology and agent-based systems individually, and highlight advantages of integration of the two different and complementary technologies. We also present a methodology that will guide us in the design of the integrated ontology-based multi-

agent systems and illustrate this methodology on two use cases from the health and software engineering domain. This book is organized as follows: • Chapter I, Current issues and the need for ontologies and agents, describes existing problems associated with uncontrollable information overload and explains how ontologies and agent-based systems can help address these - sues. • Chapter II, Introduction to multi-agent systems, defines agents and their main characteristics and features including mobility, communications and collaboration between different agents. It also presents different types of agents on the basis of classifications done by different authors.

Software Engineering: A Practitioner's Approach Roger Pressman 2014-01-23 For almost three decades, Roger Pressman's Software Engineering: A Practitioner's Approach has been the world's leading textbook in software engineering. The new eighth edition represents a major restructuring and update of previous editions, solidifying the book's position as the most comprehensive guide to this important subject. The eighth edition of Software Engineering: A Practitioner's Approach has been designed to consolidate and restructure the content introduced over the past two editions of the book. The chapter structure will return to a more linear presentation of software engineering topics with a direct emphasis on the major activities that are part of a generic software process. Content will focus on widely used software engineering methods and will de-emphasize or completely eliminate discussion of secondary methods, tools and techniques. The intent is to provide a more targeted, prescriptive, and focused approach, while attempting to maintain SEPA's reputation as a comprehensive guide to software engineering. The 39 chapters of the eighth edition are organized into five parts - Process, Modeling, Quality Management, Managing Software Projects, and Advanced Topics. The book has been revised and restructured to improve pedagogical flow and emphasize new and important software engineering processes and practices.

Objektumok létrehozása, megszüntetése, memória menedzsment Katona József 2016-02-23 E könyv a C++ nyelven történő objektumorientált szoftverfejlesztést megismerteti? sorozat második kötete, mely sorozat gyakorlati példákon keresztül segíti a nyelv elsajátítását. Bízunk benne, hogy azok, akik végigolvassák a könyvet, és kidolgozzák a példákat, azok alkalmazás szintjén megismerik a C++ nyelvi elemei által adott lehetőségeket, a nyelv logikáját, az átláthatóbb szoftver készítését el?segíti? funkcióját és mélyebben elsajátítják az objektumorientált szemlélet alapjait, mely a hatékonyan szoftverfejlesztéshez elengedhetetlen. A bemutatott ismeretek gyakorlati példákkal illusztráltak, melyek a megértést és az alkalmazás elsajátítását is nagymértékben segítik. Jelen kötet az objektumorientált programozásban használt osztályt, konstruktort, destruktort, objektumot és ezen fogalmak kapcsolatát ismerteti, továbbá egy projekten keresztül lépésről-lépésre bemutatja ezeknek a nyelvi eszközöknek a használatát és jelentőségét. DOI: 10.12345/objektum.2016

User Interfaces for Wearable Computers Hendrik Witt 2009-04-20 Hendrik Witt examines user interfaces for wearable computers and analyses the challenges imposed by the wearable computing paradigm through its dual-task character. He introduces a special software tool as well as the "HotWire" evaluation method to facilitate user interface development and evaluation. Based on the results of different end-user experiments conducted to study the management of interruptions with gesture and speech input in a wearable computing scenario, the author derives design guidelines and general constraints for forthcoming interface designs.

Innovations in Computing Sciences and Software Engineering Tarek Sobh 2010-06-26 Innovations in Computing Sciences and Software Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Topics Covered: •Image and Pattern Recognition: Compression, Image processing, Signal Processing Architectures, Signal Processing for Communication, Signal Processing Implementation, Speech Compression, and Video Coding Architectures.

•Languages and Systems: Algorithms, Databases, Embedded Systems and Applications, File Systems and I/O, Geographical Information Systems, Kernel and OS Structures, Knowledge Based Systems, Modeling and Simulation, Object Based Software Engineering, Programming Languages, and Programming Models and tools. •Parallel Processing: Distributed Scheduling, Multiprocessing, Real-time Systems, Simulation Modeling and Development, and Web Applications. •Signal and Image Processing: Content Based Video Retrieval, Character Recognition, Incremental Learning for Speech Recognition, Signal Processing Theory and Methods, and Vision-based Monitoring Systems. •Software and Systems: Activity-Based Software Estimation, Algorithms, Genetic Algorithms, Information Systems Security, Programming Languages, Software Protection Techniques, Software Protection Techniques, and User Interfaces. •Distributed Processing: Asynchronous Message Passing System, Heterogeneous Software Environments, Mobile Ad Hoc Networks, Resource Allocation, and Sensor Networks. •New trends in computing: Computers for People of Special Needs, Fuzzy Inference, Human Computer Interaction, Incremental Learning, Internet-based Computing Models, Machine Intelligence, Natural Language.

Rekayasa Perangkat Lunak Hani Subakti, S.Pd., M.Pd. 2022-05-19 Book cahpter ini disusun oleh sejumlah akademisi dan praktisi sesuai dengan kepakarannya masing-masing. Buku ini diharapkan dapat hadir memberi kontribusi positif dalam ilmu pengetahuan khususnya terkait dengan rekayasa perangkat lunak. Sistematika buku rekayasa perangkat lunak ini mengacu pada pendekatan konsep teoritis dan contoh penerapan. Buku ini terdiri atas 12 bab yang dibahas secara rinci, diantaranya: Konsep dan bagian Rekayasa Perangkat Lunak, Model Proses Perangkat Lunak, Analisis dan proses kebutuhan perangkat lunak, Spesifikasi dan Validasi Kebutuhan, Konsep dasar, konteks, Proses, dan Prinsip Perancangan Perangkat Lunak, Isu mendasar dalam perancangan perangkat lunak, Alat Bantu Perancangan (DFD), Alat Bantu Perancangan (UML), Disain Antar Muka (User Interface), Konsep dasar dan teknik dalam pengujian perangkat lunak dan Pemeliharaan Perangkat Lunak.

Electronic commerce - budowanie konkurencyjno?ci przeds?biorstwa w Internecie Wit Bogdan 2008

Modularisierung mit Java 9 Guido Oelmann 2018-01-05 Dieses Buch liefert Ihnen eine fundierte und kompakte Einführung in das Thema Modularisierung von Software und zeigt, wie Sie modularisierte Anwendungen auf Basis des Java-Modulsystems erstellen können. Im ersten Teil des Buches geht es um die theoretischen Grundlagen: Was ist überhaupt ein Modul? Wie lässt sich ein Softwaresystem sinnvoll modularisieren? Was ist beim Entwurf von Modulen und dem Zusammenspiel der Module untereinander zu beachten? Warum ist Modularisierung eigentlich so wichtig? Hier lernen Sie die Prinzipien, die auch außerhalb der Java-Welt ihre Verwendung finden, und werden in das Denken in Modulen und Schnittstellen eingeführt. Der zweite Teil stellt das mit Java 9 eingeführte Java-Modulsystem in seiner ganzen Bandbreite vor und erläutert dieses anhand vieler Beispiele. Dabei geht es u.a. um: Arten von Java-Modulen Services Modulschichten Das modularisierte JDK Erstellung eigener JREs Testen und Patchen von Modulen Migration von Anwendungen Darüber hinaus wird die Verwendung der gängigen IDEs (Eclipse, NetBeans, IntelliJ IDEA) und Build-Tools (Ant, Maven, Gradle) mit Java-Modulen behandelt. Die Betrachtung weiterer Modularisierungsansätze – Microservices und Container – schließen das Buch ab. Anhand von Beispielen erfahren Sie, wie sich diese Ansätze mit Java-Modulen verbinden lassen.

Requirements Engineering Gerald Kotonya 1998-09-16 Requirements Engineering Processes and Techniques Why this book was written The value of introducing requirements engineering to trainee software engineers is to equip them for the real world of software and systems development. What is involved in Requirements Engineering? As a discipline, newly emerging from software engineering, there are a range of views on where requirements engineering starts and finishes and what it should encompass. This book offers the most comprehensive coverage of the requirements engineering process to date - from initial requirements elicitation through to requirements validation. How and Which methods and techniques should you use? As there is no one catch-all technique applicable to all types of system, requirements engineers need to know about a range of different techniques. Tried and tested techniques such as data-flow and object-oriented models are covered as well as some promising new ones. They are all based on real systems descriptions to demonstrate the applicability of the approach. Who should read it?

Principally written for senior undergraduate and graduate students studying computer science, software engineering or systems engineering, this text will also be helpful for those in industry new to requirements engineering. Accompanying Website: <http://www.comp.lancs.ac.uk/computing/resources/re> Visit our Website: <http://www.wiley.com/college/wws>

EBOOK: OBJECT-ORIENTED SOFTWARE LETHBRIDGE 2004-12-16 EBOOK: OBJECT-ORIENTED SOFTWARE

Software Engineering Elvis C. Foster 2021-07-20 Software Engineering: A Methodical Approach (Second Edition) provides a comprehensive, but concise introduction to software engineering. It adopts a methodical approach to solving software engineering problems, proven over several years of teaching, with outstanding results. The book covers concepts, principles, design, construction, implementation, and management issues of software engineering. Each chapter is organized systematically into brief, reader-friendly sections, with itemization of the important points to be remembered. Diagrams and illustrations also sum up the salient points to enhance learning. Additionally, the book includes the author's original methodologies that add clarity and creativity to the software engineering experience. New in the Second Edition are chapters on software engineering projects, management support systems, software engineering frameworks and patterns as a significant building block for the design and construction of contemporary software systems, and emerging software engineering frontiers. The text starts with an introduction of software engineering and the role of the software engineer. The following chapters examine in-depth software analysis, design, development, implementation, and management. Covering object-oriented methodologies and the principles of object-oriented information engineering, the book reinforces an object-oriented approach to the early phases of the software development life cycle. It covers various diagramming techniques and emphasizes object classification and object behavior. The text features comprehensive treatments of: Project management aids that are commonly used in software engineering An overview of the software design phase, including a discussion of the software design process, design strategies, architectural design, interface design, database design, and design and development standards User interface design Operations design Design considerations including system catalog, product documentation, user message management, design for real-time software, design for reuse, system security, and the agile effect Human resource management from a software engineering perspective Software economics Software implementation issues that range from operating environments to the marketing of software Software maintenance, legacy systems, and re-engineering This textbook can be used as a one-semester or two-semester course in software engineering, augmented with an appropriate CASE or RAD tool. It emphasizes a practical, methodical approach to software engineering, avoiding an overkill of theoretical calculations where possible. The primary objective is to help students gain a solid grasp of the activities in the software development life cycle to be confident about taking on new software engineering projects.

