

Uml 2 Certification Fundamental And Intermediate Exams The Mk Omg Press

The Object PrimerUML for Java ProgrammersProcess MiningRequirements Engineering FundamentalsFundamentals of Software ArchitectureA Guide to the Business Analysis Body of KnowledgeSystems Engineering with SysML/UMLLearning UML 2.0Model-Driven Engineering and Software DevelopmentSYSMOD - The Systems Modeling Toolbox - Pragmatic MBSE with SysMLSystems Engineering with SysML/UMLAPPLYING UML & PATTERNS 3RD EDITIONOCUP 2 Certification GuideModel-Based Testing Essentials - Guide to the ISTQB Certified Model-Based TesterSysML DistilledLearning PHP Design PatternsEssential Business Process ModelingSOA and Web Services Interface DesignUML 2 Certification GuideUML AppliedApplied Discrete StructuresCarbon Dioxide Capture and StorageFoundations of Software TestingUML 2. 0 in ActionOCEB Certification GuideLearning UMLUML and Object-Oriented Design FoundationsSoftware Architecture FundamentalsSystems Architecture Modeling with the Arcadia MethodReal Time UML Workshop for Embedded SystemsObject-Oriented Software Engineering Using UML, Patterns, and Java: Pearson New International EditionApplying UML and Patterns Training CourseDeveloping Applications with Java and UMLUML 2.0 in a NutshellSCJP: Sun Certified Programmer for Java Platform Study GuideA Practical Guide to SysMLPatterns for Effective Use CasesA Programmer's Guide to Java CertificationModeling Enterprise Architecture with TOGAFCEB 2 Certification Guide

The Object Primer

A fast and easy five-step UML approach developed by the author is the basis of this practical introduction to the application of UML in a .NET world.

UML for Java Programmers

The acclaimed beginner's book on object technology now presents UML 2.0, Agile Modeling, and the latest in object development techniques.

Process Mining

With its clear introduction to the Unified Modeling Language (UML) 2.0, this tutorial offers a solid understanding of each topic, covering foundational concepts of object-orientation and an introduction to each of the UML diagram types.

Requirements Engineering Fundamentals

SYSMOD is an MBSE toolbox for pragmatic modeling of systems. It is well-suited to be used with SysML. The book provides a set of methods with roles and outputs. Concrete guidances and examples show how to apply the methods with SysML. * Requirements modeling * System Context * Use Cases * Functional, Physical, Logical and Product Architectures * Guidances how to create a SysML model * Full-fledged SysML example * Complete definition of a profile for SYSMOD This book is

also available as an eBook at leanpub.com/sysmod.

Fundamentals of Software Architecture

Build server-side applications more efficiently—and improve your PHP programming skills in the process—by learning how to use design patterns in your code. This book shows you how to apply several object-oriented patterns through simple examples, and demonstrates many of them in full-fledged working applications. Learn how these reusable patterns help you solve complex problems, organize object-oriented code, and revise a big project by only changing small parts. With Learning PHP Design Patterns, you'll learn how to adopt a more sophisticated programming style and dramatically reduce development time. Learn design pattern concepts, including how to select patterns to handle specific problems Get an overview of object-oriented programming concepts such as composition, encapsulation, polymorphism, and inheritance Apply creational design patterns to create pages dynamically, using a factory method instead of direct instantiation Make changes to existing objects or structure without having to change the original code, using structural design patterns Use behavioral patterns to help objects work together to perform tasks Interact with MySQL, using behavioral patterns such as Proxy and Chain of Responsibility Explore ways to use PHP's built-in design pattern interfaces

A Guide to the Business Analysis Body of Knowledge

Second Edition of the UML video course based on the book Applying UML and Patterns. This VTC will focus on object-oriented analysis and design, not just drawing UML.

Systems Engineering with SysML/UML

OCEB Certification Guide delivers expert insight into BPM from one of the developers of the OCEB Fundamental exam, offering full coverage of the exam material for both the business and technical tracks. The first study guide to prepare candidates to take and pass the OCEB Fundamental exam, it explains and builds on basic concepts, focusing on key areas and testing knowledge of all critical topics with sample questions and detailed answers. Suitable for practitioners and those newer to the field, this book provides a solid grounding in business process management based on the authors' own extensive BPM consulting experience. Covers all of the topics on the Fundamentals exam, eliminating hours otherwise spent in research and prep time Includes sample test questions in each chapter with all answers in the appendix Expert authors provide a solid overview of business process management (BPM)

Learning UML 2.0

For courses in Software Engineering, Software Development, or Object-Oriented Design and Analysis at the Junior/Senior or Graduate level. This text can also be utilized in short technical courses or in short, intensive management courses. Shows students how to use both the principles of software engineering and the

practices of various object-oriented tools, processes, and products. Using a step-by-step case study to illustrate the concepts and topics in each chapter, Bruegge and Dutoit emphasize learning object-oriented software engineer through practical experience: students can apply the techniques learned in class by implementing a real-world software project. The third edition addresses new trends, in particular agile project management (Chapter 14 Project Management) and agile methodologies (Chapter 16 Methodologies).

Model-Driven Engineering and Software Development

This new book is the definitive primer for UML, and starts with the foundational concepts of object-orientation in order to provide the proper context for explaining UML.

SYSMOD - The Systems Modeling Toolbox - Pragmatic MBSE with SysML

This is the second edition of Wil van der Aalst's seminal book on process mining, which now discusses the field also in the broader context of data science and big data approaches. It includes several additions and updates, e.g. on inductive mining techniques, the notion of alignments, a considerably expanded section on software tools and a completely new chapter of process mining in the large. It is self-contained, while at the same time covering the entire process-mining spectrum from process discovery to predictive analytics. After a general introduction to data science and process mining in Part I, Part II provides the basics of business process modeling and data mining necessary to understand the remainder of the book. Next, Part III focuses on process discovery as the most important process mining task, while Part IV moves beyond discovering the control flow of processes, highlighting conformance checking, and organizational and time perspectives. Part V offers a guide to successfully applying process mining in practice, including an introduction to the widely used open-source tool ProM and several commercial products. Lastly, Part VI takes a step back, reflecting on the material presented and the key open challenges. Overall, this book provides a comprehensive overview of the state of the art in process mining. It is intended for business process analysts, business consultants, process managers, graduate students, and BPM researchers.

Systems Engineering with SysML/UML

IPCC Report on sources, capture, transport, and storage of CO₂, for researchers, policy-makers and engineers.

APPLYING UML & PATTERNS 3RD EDITION

Provides a practical and comprehensive introduction to the key aspects of model-based testing as taught in the ISTQB® Model-Based Tester—Foundation Level Certification Syllabus This book covers the essentials of Model-Based Testing (MBT) needed to pass the ISTQB® Foundation Level Model-Based Tester Certification. The text begins with an introduction to MBT, covering both the benefits and the

limitations of MBT. The authors review the various approaches to model-based testing, explaining the fundamental processes in MBT, the different modeling languages used, common good modeling practices, and the typical mistakes and pitfalls. The book explains the specifics of MBT test implementation, the dependencies on modeling and test generation activities, and the steps required to automate the generated test cases. The text discusses the introduction of MBT in a company, presenting metrics to measure success and good practices to apply. Provides case studies illustrating different approaches to Model-Based Testing Includes in-text exercises to encourage readers to practice modeling and test generation activities Contains appendices with solutions to the in-text exercises, a short quiz to test readers, along with additional information Model-Based Testing Essentials - Guide to the ISTQB® Certified Model-Based Tester - Foundation Level is written primarily for participants of the ISTQB® Certification: software engineers, test engineers, software developers, and anybody else involved in software quality assurance. This book can also be used for anyone who wants a deeper understanding of software testing and of the use of models for test generation.

OCUP 2 Certification Guide

Your One-Stop Guide To Passing The ISTQB Foundation Level Exam Foundations of Software Testing: Updated edition for ISTQB Certification is your essential guide to software testing and the ISTQB Foundation qualification. Whether you are a students or tester of ISTQB, this book is an essential purchase if you want to benefit from the knowledge and experience of those involved in the writing of the ISTQB Syllabus. This book adopts a practical and hands-on approach, covering the fundamental principles that every system and software tester should know. Each of the six sections of the syllabus is covered by background tests, revision help and sample exam questions. The also contains a glossary, sample full-length examination and information on test certification. The authors are seasoned test-professionals and developers of the ISTQB syllabus itself, so syllabus coverage is thorough and in-depth. This book is designed to help you pass the ISTQB exam and qualify at Foundation Level, and is enhanced with many useful learning aids. ABOUT ISTQB ISTQB is a multi-national body overseeing the development of international qualifications in software testing. In a world of employment mobility and multi-national organizations, having an internationally recognized qualification ensures that there is a common understanding, internationally, of software testing issues.

Model-Based Testing Essentials - Guide to the ISTQB Certified Model-Based Tester

SysML Distilled

In SOA and Web Services Interface Design, data architecture guru James Bean teaches you how to design web service interfaces that are capable of being extended to accommodate ever changing business needs and promote incorporation simplicity. The book first provides an overview of critical SOA principles, thereby offering a basic conceptual summary. It then provides explicit, tactical, and real-world techniques for ensuring compliance with these principles.

Using a focused, tutorial-based approach the book provides working syntactical examples - described by Web services standards such as XML, XML Schemas, WSDL and SOAP - that can be used to directly implement interface design procedures, thus allowing you immediately generate value from your efforts. In summary, SOA and Web Services Interface Design provides the basic theory, but also design techniques and very specific implementable encoded interface examples that can be immediately employed in your work, making it an invaluable practical guide to any practitioner in today's exploding Web-based service market. Provides chapters on topics of introductory WSDL syntax and XML Schema syntax, taking the reader through fundamental concepts and into deeper techniques and allowing them to quickly climb the learning curve. Provides working syntactical examples - described by Web services standards such as XML, XML Schemas, WSDL and SOAP - that can be used to directly implement interface design procedures. Real-world examples generated using the Altova XML Spy tooling reinforce applicability, allowing you to immediately generate value from their efforts.

Learning PHP Design Patterns

The Systems Modeling Language (SysML) extends UML with powerful systems engineering capabilities for modeling a wider spectrum of systems and capturing all aspects of a system's design. SysML Distilled is the first clear, concise guide for everyone who wants to start creating effective SysML models. (Drawing on his pioneering experience at Lockheed Martin and NASA, Lenny Delligatti illuminates SysML's core components and provides practical advice to help you create good models and good designs. Delligatti begins with an easy-to-understand overview of Model-Based Systems Engineering (MBSE) and an explanation of how SysML enables effective system specification, analysis, design, optimization, verification, and validation. Next, he shows how to use all nine types of SysML diagrams, even if you have no previous experience with modeling languages. A case study running through the text demonstrates the use of SysML in modeling a complex, real-world sociotechnical system. Modeled after Martin Fowler's classic UML Distilled, Delligatti's indispensable guide quickly teaches you what you need to know to get started and helps you deepen your knowledge incrementally as the need arises. Like SysML itself, the book is method independent and is designed to support whatever processes, procedures, and tools you already use. Coverage Includes Why SysML was created and the business case for using it Quickly putting SysML to practical use What to know before you start a SysML modeling project Essential concepts that apply to all SysML diagrams SysML diagram elements and relationships Diagramming block definitions, internal structures, use cases, activities, interactions, state machines, constraints, requirements, and packages Using allocations to define mappings among elements across a model SysML notation tables, version changes, and sources for more information

Essential Business Process Modeling

This book constitutes thoroughly revised and selected papers from the Second International Conference on Model-Driven Engineering and Software Development, MODELSWARD 2014, held in Lisbon, Portugal, in January 2014. The 10 thoroughly revised and extended papers presented in this volume were carefully reviewed and

selected from 88 submissions. They are organized in topical sections named: invited papers; modeling languages, tools and architectures; and methodologies, processes and platforms.

SOA and Web Services Interface Design

OCEB 2 Certification Guide, Second Edition has been updated to cover the new version 2 of the BPMN standard and delivers expert insight into BPM from one of the developers of the OCEB Fundamental exam, offering full coverage of the fundamental exam material for both the business and technical tracks to further certification. The first study guide prepares candidates to take—and pass—the OCEB Fundamental exam, explaining and building on basic concepts, focusing on key areas, and testing knowledge of all critical topics with sample questions and detailed answers. Suitable for practitioners, and those newer to the field, this book provides a solid grounding in business process management based on the authors' own extensive BPM consulting experiences. Completely updated, with the latest material needed to pass the OCEB-2 and BPMN Certification Includes sample test questions in each chapter, with answers in the appendix Expert authors provide a solid overview of business process management (BPM)

UML 2 Certification Guide

A detailed and practical book and eBook walk-through showing how to apply UML to real world development projects

UML Applied

Explore the fundamental concepts behind modern, object-oriented software design best practices. Learn how to work with UML to approach software development more efficiently. In this comprehensive book, instructor Károly Nyisztor helps to familiarize you with the fundamentals of object-oriented design and analysis. He introduces each concept using simple terms, avoiding confusing jargon. He focuses on the practical application, using hands-on examples you can use for reference and practice. Throughout the book, Károly walks you through several examples to familiarize yourself with software design and UML. Plus, he walks you through a case study to review all the steps of designing a real software system from start to finish. Topics include:- Understanding software development methodologies- Choosing the right methodology: Waterfall vs. Agile- Fundamental object-Orientation concepts: Abstraction, Polymorphism and more- Collecting requirements- Mapping requirements to technical descriptions- Unified Modeling Language (UML)- Use case, class, sequence, activity, and state diagrams- Designing a Note-Taking App from scratch You will acquire professional and technical skills together with an understanding of object-orientation principles and concepts. After completing this book, you'll be able to understand the inner workings of object-oriented software systems. You will communicate easily and effectively with other developers using object-orientation terms and UML diagrams. About the Author Károly Nyisztor is a veteran mobile developer and instructor. He has built several successful iOS apps and games--most of which were featured by Apple--and is the founder at LEAKKA, a software development, and

tech consulting company. He's worked with companies such as Apple, Siemens, SAP, and Zen Studios. Currently, he spends most of his days as a professional software engineer and IT architect. In addition, he teaches object-oriented software design, iOS, Swift, Objective-C, and UML. As an instructor, he aims to share his 20+ years of software development expertise and change the lives of students throughout the world. He's passionate about helping people reveal hidden talents, and guide them into the world of startups and programming. You can find his courses and books on all major platforms including Amazon, Lynda, LinkedIn Learning, Pluralsight, Udemy, and iTunes.

Applied Discrete Structures

"Business analysis involves understanding how organizations function to accomplish their purposes and defining the capabilities an organization requires to provide products and services to external stakeholders. [This guide contains] a framework that describes the business analysis tasks that must be performed in order to understand how a solution will deliver value to the sponsoring organization." - page 3.

Carbon Dioxide Capture and Storage

This comprehensive guide has been fully revised to cover UML 2.0, today's standard method for modelling software systems. Filled with concise information, it's been crafted to help IT professionals read, create, and understand system artefacts expressed using UML. Includes an example-rich tutorial for those who need familiarizing with the system.

Foundations of Software Testing

Salary surveys worldwide regularly place software architect in the top 10 best jobs, yet no real guide exists to help developers become architects. Until now. This book provides the first comprehensive overview of software architecture's many aspects. Aspiring and existing architects alike will examine architectural characteristics, architectural patterns, component determination, diagramming and presenting architecture, evolutionary architecture, and many other topics. Mark Richards and Neal Ford—hands-on practitioners who have taught software architecture classes professionally for years—focus on architecture principles that apply across all technology stacks. You'll explore software architecture in a modern light, taking into account all the innovations of the past decade. This book examines: Architecture patterns: The technical basis for many architectural decisions Components: Identification, coupling, cohesion, partitioning, and granularity Soft skills: Effective team management, meetings, negotiation, presentations, and more Modernity: Engineering practices and operational approaches that have changed radically in the past few years Architecture as an engineering discipline: Repeatable results, metrics, and concrete valuations that add rigor to software architecture

UML 2. 0 in Action

Sun's foundation-level Sun Certified Java Programmer (SCJP) for Standard Edition 6 is a must-have for any Java programmer, and is a prerequisite for Sun's specialty certifications. This resource is essential preparation for the SCJP and focuses heavily on the skill set that Sun expects its SCJPs to have, with numerous examples, exercises, and real-world scenarios to give readers the tools needed to use what they learn. The material covers declarations, initialization, and scoping; flow control; API contents; concurrency; object-oriented concepts; collections/generics; and fundamentals. The interactive CD-ROM features chapter review questions, two bonus exams, a series of flashcards that can be used on PCs or handheld devices, and an e-book. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

OCEB Certification Guide

Covers basic terminology and concepts of object oriented programming. Contains programming exercises and illustrations.

Learning UML

Provides 31 development and structural patterns for software developers to refer to as examples of well-written use cases that help model software requirements. The development patterns describe the characteristics of good writing practices and project organization, while the structural patterns identify the basic components of use cases and how they should be organized. Annotation copyrighted by Book News, Inc., Portland, OR

UML and Object-Oriented Design Foundations

A Practical Guide to SysML: The Systems Modeling Language is a comprehensive guide to SysML for systems and software engineers. It provides an advanced and practical resource for modeling systems with SysML. The source describes the modeling language and offers information about employing SysML in transitioning an organization or project to model-based systems engineering. The book also presents various examples to help readers understand the OMG Systems Modeling Professional (OCSMP) Certification Program. The text is organized into four parts. The first part provides an overview of systems engineering. It explains the model-based approach by comparing it with the document-based approach and providing the modeling principles. The overview of SYsML is also discussed. The second part of the book covers a comprehensive description of the language. It discusses the main concepts of model organization, parametrics, blocks, use cases, interactions, requirements, allocations, and profiles. The third part presents examples that illustrate how SysML supports different model-based procedures. The last part discusses how to transition and deploy SysML into an organization or project. It explains the integration of SysML into a systems development environment. Furthermore, it describes the category of data that are exchanged between a SysML tool and other types of tools, and the types of exchange mechanisms that can be used. It also covers the criteria that must be considered when selecting a SysML. Software and systems engineers, programmers, IT practitioners, experts, and non-experts will find this book useful. *The authoritative guide for

understanding and applying SysML *Authored by the foremost experts on the language *Language description, examples, and quick reference guide included

Software Architecture Fundamentals

The Unified Modeling Language has become the industry standard for the expression of software designs. The Java programming language continues to grow in popularity as the language of choice for the serious application developer. Using UML and Java together would appear to be a natural marriage, one that can produce considerable benefit. However, there are nuances that the seasoned developer needs to keep in mind when using UML and Java together. Software expert Robert Martin presents a concise guide, with numerous examples, that will help the programmer leverage the power of both development concepts. The author ignores features of UML that do not apply to java programmers, saving the reader time and effort. He provides direct guidance and points the reader to real-world usage scenarios. The overall practical approach of this book brings key information related to Java to the many presentations. The result is an highly practical guide to using the UML with Java.

Systems Architecture Modeling with the Arcadia Method

The popular Unified Modeling Language (UML) is both a language and notation developed by the Object Management Group (OMG) used to design and create specifications for software systems. With the recent release of version 2.0 UML, the OMG has started the OMG-Certified UML Professional Program to provide an objective measure of UML knowledge. As a certified UML professional a developer has an important credential to present to employers and clients. Certification also benefits companies looking for skilled UML practitioners by giving them a basis for making hiring and promotion decisions. UML 2 Certification Guide is the only official study guide to passing the new UML exams. This book systematically covers all of the topics covered in the exams, and has been carefully reviewed by the OMG. The book begins by assuming only a basic knowledge of UML and then progresses far enough to allow a reader to pass both the fundamental and the intermediate level exams. Along the way the book also covers topics that are not in introductory books on UML but that are necessary to pass the exams. Tim Weilkiens is considered one of the top ten experts on UML, and both authors have extensive experience training developers to successfully take the exams. The official certification resource Assumes a basic knowledge of UML so that you can focus immediately on the exams Written by two authors known for their skill as trainers, consultants, and developers Developed systematically to enable you to master all exam topics—without exception Covers the use of UML for applications, as required by the exams, both inside and outside of the realm of software development Includes a practice exam, glossary, list of books, and website information

Real Time UML Workshop for Embedded Systems

Ten years ago, groupware bundled with email and calendar applications helped track the flow of work from person to person within an organization. Workflow in

today's enterprise means more monitoring and orchestrating massive systems. A new technology called Business Process Management, or BPM, helps software architects and developers design, code, run, administer, and monitor complex network-based business processes. BPM replaces those sketchy flowchart diagrams that business analysts draw on whiteboards with a precise model that uses standard graphical and XML representations, and an architecture that allows it converse with other services, systems, and users. Sound complicated? It is. But it's downright frustrating when you have to search the Web for every little piece of information vital to the process. Essential Business Process Modeling gathers all the concepts, design, architecture, and standard specifications of BPM into one concise book, and offers hands-on examples that illustrate BPM's approach to process notation, execution, administration and monitoring. Author Mike Havey demonstrates standard ways to code rigorous processes that are centerpieces of a service-oriented architecture (SOA), which defines how networks interact so that one can perform a service for the other. His book also shows how BPM complements enterprise application integration (EAI), a method for moving from older applications to new ones, and Enterprise Service BUS for integrating different web services, messaging, and XML technologies into a single network. BPM, he says, is to this collection of services what a conductor is to musicians in an orchestra: it coordinates their actions in the performance of a larger composition. Essential Business Process Modeling teaches you how to develop examples of process-oriented applications using free tools that can be run on an average PC or laptop. You'll also learn about BPM design patterns and best practices, as well as some underlying theory. The best way to monitor processes within an enterprise is with BPM, and the best way to navigate BPM is with this valuable book.

Object-Oriented Software Engineering Using UML, Patterns, and Java: Pearson New International Edition

This practical new book provides much-needed, practical, hands-on experience capturing analysis and design in UML. It holds the hands of engineers making the difficult leap from developing in C to the higher-level and more robust Unified Modeling Language, thereby supporting professional development for engineers looking to broaden their skill-sets in order to become more saleable in the job market. It provides a laboratory environment through a series of progressively more complex exercises that act as building blocks, illustrating the various aspects of UML and its application to real-time and embedded systems. With its focus on gaining proficiency, it goes a significant step beyond basic UML overviews, providing both comprehensive methodology and the best level of supporting exercises available on the market. Each exercise has a matching solution which is thoroughly explained step-by-step in the back of the book. The techniques used to solve these problems come from the author's decades of experience designing and constructing real-time systems. After the exercises have been successfully completed, the book will act as a desk reference for engineers, reminding them of how many of the problems they face in their designs can be solved. Tutorial style text with keen focus on in-depth presentation and solution of real-world example problems. Highly popular, respected and experienced author.

Applying UML and Patterns Training Course

This book is an illustrative guide for the understanding and implementation of model-based systems and architecture engineering with the Arcadia method, using Capella, a new open-source solution. More than just another systems modeling tool, Capella is a comprehensive and extensible Eclipse application that has been successfully deployed in a wide variety of industrial contexts. Based on a graphical modeling workbench, it provides systems architects with rich methodological guidance using the Arcadia method and modeling language. Intuitive model editing and advanced viewing capabilities improve modeling quality and productivity, and help engineers focus on the design of the system and its architecture. This book is the first to help readers discover the richness of the Capella solution. Describes the toolset widely deployed on operational projects in all Thales domains worldwide (defense, aerospace, transportation, etc.) Emphasizes the author's pedagogical experience on the methods and the tools gained through conducting more than 80 training sessions for a thousand engineers at Thales University Examines the emergence of an ecosystem of organizations, including industries that would drive the Capella roadmap according to operational needs, service and technology suppliers who would develop their business around the solution, and academics who would pave the future of the engineering ecosystem

Developing Applications with Java and UML

The author of *Developing Applications with Visual Basic and UML* (Addison-Wesley, 2000), a consultant on object-oriented distributed systems, presents a large-scale application to explain the lifecycle of building robust Java applications with the Unified Modeling Language using Rational's Software's Unified Plan. Reed also makes a short detour into his Synergy Process. Appends material on the Unified Plan and the BEA WebLogic application server. Assumes programmers' knowledge of Java and a willingness to evolve past a cavalier attitude toward project planning.

UML 2.0 in a Nutshell

Software architecture is an important factor for the success of any software project. In the context of systematic design and construction, solid software architecture ensures the fulfilment of quality requirements such as expandability, flexibility, performance, and time-to-market. Software architects reconcile customer requirements with the available technical options and the prevailing conditions and constraints. They ensure the creation of appropriate structures and smooth interaction of all system components. As team players, they work closely with software developers and other parties involved in the project. This book gives you all the basic know-how you need to begin designing scalable system software architectures. It goes into detail on all the most important terms and concepts and how they relate to other IT practices. Following on from the basics, it describes the techniques and methods required for the planning, documentation, and quality management of software architectures. It details the role, the tasks, and the work environment of a software architect, as well as looking at how the job itself is embedded in company and project structures. The book is designed for self-study and covers the curriculum for the Certified Professional for Software Architecture – Foundation Level (CPSA-F) exam as defined by the International Software Architecture Qualification Board (iSAQB).

SCJP: Sun Certified Programmer for Java Platform Study Guide

UML, the Universal Modeling Language, was the first programming language designed to fulfill the requirement for "universality." However, it is a software-specific language, and does not support the needs of engineers designing from the broader systems-based perspective. Therefore, SysML was created. It has been steadily gaining popularity, and many companies, especially in the heavily-regulated Defense, Automotive, Aerospace, Medical Device and Telecomms industries, are already using SysML, or are planning to switch over to it in the near future. However, little information is currently available on the market regarding SysML. Its use is just on the crest of becoming a widespread phenomenon, and so thousands of software engineers are now beginning to look for training and resources. This book will serve as the one-stop, definitive guide that provide an introduction to SysML, and instruction on how to implement it, for all these new users. *SysML is the latest emerging programming language--250,000 estimated software systems engineers are using it in the US alone! *The first available book on SysML in English *Insider information! The author is a member of the SysML working group and has written sections of the specification *Special focus comparing SysML and UML, and explaining how both can work together

A Practical Guide to SysML

Modeling Enterprise Architecture with TOGAF explains everything you need to know to effectively model enterprise architecture with The Open Group Architecture Framework (TOGAF), the leading EA standard. This solution-focused reference presents key techniques and illustrative examples to help you model enterprise architecture. This book describes the TOGAF standard and its structure, from the architecture transformation method to governance, and presents enterprise architecture modeling practices with plenty of examples of TOGAF deliverables in the context of a case study. Although widespread and growing quickly, enterprise architecture is delicate to manage across all its dimensions. Focusing on the architecture transformation method, TOGAF provides a wide framework, which covers the repository, governance, and a set of recognized best practices. The examples featured in this book were realized using the open source Modelio tool, which includes extensions for TOGAF. Includes intuitive summaries of the complex TOGAF standard to let you effectively model enterprise architecture Uses practical examples to illustrate ways to adapt TOGAF to the needs of your enterprise Provides model examples with Modelio, a free modeling tool, letting you exercise TOGAF modeling immediately using a dedicated tool Combines existing modeling standards with TOGAF

Patterns for Effective Use Cases

Larman covers how to investigate requirements, create solutions and then translate designs into code, showing developers how to make practical use of the most significant recent developments. A summary of UML notation is included

A Programmer's Guide to Java Certification

OCUP 2 Certification Guide: Preparing for the OMG Certified UML 2.5 Professional 2 Foundation Exam both teaches UML® 2.5 and prepares candidates to become certified. UML® (Unified Modeling Language) is the most popular graphical language used by software analysts, designers, and developers to model, visualize, communicate, test, and document systems under development. UML® 2.5 has recently been released, and with it a new certification program for practitioners to enhance their current or future career opportunities. There are three exam levels: Foundation, Intermediate, and Advanced. The exam covered in this book, Foundation, is a prerequisite for the higher levels. Author Michael Jesse Chonoles is a lead participant in the current OCUP 2 program—not only in writing and reviewing all the questions, but also in designing the goals of the program. This book distills his experience in modeling, mentoring, and training. Because UML® is a sophisticated language, with 13 diagram types, capable of modeling any type of modern software system, it takes users some time to become proficient. This effective resource will explain the material in the Foundation exam and includes many practice questions for the candidate, including sample problems similar to those found in the exam, and detailed explanations of why correct answers are correct and why wrong answers are wrong. Written to prepare candidates for the OCUP 2 Foundation level exam while they learn UML® Illustrated with UML® diagrams to clarify every concept and technique Offers hints for studying and test-taking based on the specific nature and structure of the Foundation Level exam Includes practice exam material, sample questions and exercises, warnings, tips, and points to remember throughout

Modeling Enterprise Architecture with TOGAF

Requirements engineering tasks have become increasingly complex. In order to ensure a high level of knowledge and competency among requirements engineers, the International Requirements Engineering Board (IREB) developed a standardized qualification called the Certified Professional for Requirements Engineering (CPRE). The certification defines the practical skills of a requirements engineer on various training levels. This book is designed for self-study and covers the curriculum for the Certified Professional for Requirements Engineering Foundation Level exam as defined by the IREB. The 2nd edition has been thoroughly revised and is aligned with the curriculum Version 2.2 of the IREB. In addition, some minor corrections to the 1st edition have been included. About IREB: The mission of the IREB is to contribute to the standardization of further education in the fields of business analysis and requirements engineering by providing syllabi and examinations, thereby achieving a higher level of applied requirements engineering. The IRE Board is comprised of a balanced mix of independent, internationally recognized experts in the fields of economy, consulting, research, and science. The IREB is a non-profit corporation. For more information visit www.certified-re.com.

OCEB 2 Certification Guide

UML, the Universal Modeling Language, was the first programming language designed to fulfill the requirement for "universality." However, it is a software-specific language, and does not support the needs of engineers designing from the broader systems-based perspective. Therefore, SysML was created. It has been steadily gaining popularity, and many companies, especially in the heavily-

regulated Defense, Automotive, Aerospace, Medical Device and Telecomms industries, are already using SysML, or are planning to switch over to it in the near future. However, little information is currently available on the market regarding SysML. Its use is just on the crest of becoming a widespread phenomenon, and so thousands of software engineers are now beginning to look for training and resources. This book will serve as the one-stop, definitive guide that provide an introduction to SysML, and instruction on how to implement it, for all these new users. *SysML is the latest emerging programming language--250,000 estimated software systems engineers are using it in the US alone! *The first available book on SysML in English *Insider information! The author is a member of the SysML working group and has written sections of the specification *Special focus comparing SysML and UML, and explaining how both can work together

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