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WRITING EFFECTIVE USE CASES.
The Elements of UMLTM 2.0 Style
A Practical Guide to SysML
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User Story Mapping
Design Principles for Embedded Systems
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WRITING EFFECTIVE USE CASES. Pearson Education
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.
The Elements of UMLTM 2.0 Style Packt Publishing Ltd
Simple, elegant, and proven solutions to the specific problems of writing use cases on real projects, this workbook has 36 specific guidelines that readers can use to measure the quality of their use cases. This is the first book to specifically address use cases with the proven and popular development concept of patterns.
A Practical Guide to SysML Addison-Wesley Professional
The book is designed to serve as a textbook for courses offered to graduate and undergraduate students enrolled in electronics and electrical engineering and computer science. This book attempts to bridge the gap between electronics and computer science students, providing complementary knowledge that is essential for designing an embedded system. The book covers key concepts tailored for embedded system design in one place. The topics covered in this book are models and architectures, Executable Specific Languages – SystemC, Unified Modeling Language, real-time systems, real-time operating systems, networked embedded systems, Embedded Processor architectures, and platforms that are secured and energy-efficient. A major segment of embedded systems needs hard real-time requirements. This textbook includes real-time concepts including algorithms and real-time operating system standards like POSIX threads. Embedded systems are mostly distributed and networked for deterministic responses. The book covers how to design networked embedded systems with appropriate protocols for real-time requirements. Each chapter contains 2-3 solved case studies and 10 real-world problems as exercises to provide detailed coverage and essential pedagogical tools that make this an ideal textbook for students enrolled in electrical and electronics engineering and computer science programs.
SysML Distilled Springer
System architects and designers can use this title to quickly produce more efficient use case models by applying a catalog of use case patterns. Based on the authors' experience, the book describes the practical use, application, and solutions to common problems of creating use cases.
User Story Mapping Cambridge University Press
A classic treatise that defined the field of applied demand analysis, Consumer Demand in the United States: Prices, Income, and Consumption Behavior is now fully updated and expanded for a new generation. Consumption expenditures by households in the United States account for about 70% of Americaâ__s GDP. The primary focus in this book is on how households adjust these expenditures in response to changes in price and income. Econometric estimates of price and income elasticities are obtained for an exhaustive array of goods and services using data from surveys conducted by the Bureau of Labor Statistics, providing a better understanding of consumer demand. Practical models for forecasting future price and income elasticities are also demonstrated. Fully revised with over a dozen new chapters and appendices, the book revisits the original Taylor-Houthakker models while examining new material as well, such as the use of quantile regression and the stationarity of consumer preference. It also explores the emerging connection between neuroscience and consumer behavior, integrating the economic literature on demand theory with psychology literature. The most comprehensive treatment of the topic to date, this volume will be an essential resource for any researcher, student or professional economist working on consumer behavior or demand theory, as well as investors and policymakers concerned with the impact of economic fluctuations.
Design Principles for Embedded Systems Addison-Wesley Professional
Worried about the growing complexity of systems in your organization? Manage it with recipes for applying agile methodologies and techniques in model-based systems engineering (MBSE) Key Features Learn how Agile and MBSE can work iteratively and collaborate to overcome system complexity Develop essential systems engineering products and achieve crucial enterprise objectives with easy-to-follow recipes Build efficient system engineering models using tried and trusted best practices Book DescriptionAgile MBSE can help organizations manage constant change and uncertainty while continuously ensuring system correctness and meeting customers' needs. But deploying it isn't easy. Agile Model-Based Systems Engineering Cookbook is a little different from other MBSE books out there. This book focuses on workflows – or recipes, as the author calls them – that will help MBSE practitioners and team leaders address practical situations that are part of deploying MBSE as part of an agile development process across the enterprise. Written by Dr. Bruce Powel Douglass, a world-renowned expert in MBSE, this book will take you through important systems engineering workflows and show you how they can be performed effectively with an agile and model-based approach. You'll start with the key concepts of agile methods for systems engineering, but we won't linger on the theory for too long. Each of the recipes will take you through initiating a project, defining stakeholder needs, defining and analyzing system requirements, designing system architecture, performing model-based engineering trade studies, all the way to handling systems specifications off to downstream engineering. By the end of this MBSE book, you'll have learned how to implement critical systems engineering workflows and create verifiably correct systems engineering models.What you will learn Apply agile methods to develop systems engineering specifications Perform functional analysis with SysML Derive and model systems architectures from key requirements Model crucial engineering data to clarify systems requirements Communicate decisions with downstream subsystem implementation teams Verify specifications with model reviews and simulations Ensure the accuracy of systems models through model-based testing Who this book is for If you are a systems engineer who wants to pursue model-based systems engineering in an agile setting, this book will show you how you can do that without breaking a sweat. Fundamental knowledge of SysML is necessary; the book will teach you the rest.

Using CRC Cards Pearson Education
In Software Requirements, you'll discover practical, effective techniques for managing the requirements engineering process all the way through the development cycle--including tools to facilitate that all-important communication between users, developers, and management. Use them to: Book jacket.
Applying UML and Patterns Training Course John Wiley & Sons
Alastair Cockburn offers advice on bringing difficult software development projects to a successful conclusion with a minimum of stress. The volume is based on over 10 years of interviewing software project teams.
Use Case Driven Object Modeling with UMLTheory and Practice Addison-Wesley Professional
"IEEE Press is pleased to bring you this Second Edition of Phillip A. Laplante's best-selling and widely-acclaimed practical guide to building real-time systems. This book is essential for improved system designs, faster computation, better insights, and ultimate cost savings. Unlike any other book in the field, REAL-TIME SYSTEMS DESIGN AND ANALYSIS provides a holistic, systems-based approach that is devised to help engineers write problem-solving software. Laplante's no-nonsense guide to real-time system design features practical coverage of: Related technologies and their histories Time-saving tips * Hands-on instructions Pascal code Insights into decreasing ramp-up times and more!"
Succeeding with Use Cases Springer Science & Business Media
Embedded systems have long become essential in application areas in which human control is impossible or infeasible. The development of modern embedded systems is becoming increasingly difficult and challenging because of their overall system complexity, their tighter and cross-functional integration, the increasing requirements concerning safety and real-time behavior, and the need to reduce development and operation costs. This book provides a comprehensive overview of the Software Platform Embedded Systems (SPES) modeling framework and demonstrates its applicability in embedded system development in various industry domains such as automation, automotive, avionics, energy, and healthcare. In SPES 2020, twenty-one partners from academia and industry have joined forces in order to develop and evaluate in different industrial domains a modeling framework that reflects the current state of the art in embedded systems engineering. The content of this book is structured in four parts. Part I “Starting Point” discusses the status quo of embedded systems development and model-based engineering, and summarizes the key requirements faced when developing embedded systems in different application domains. Part II “The SPES Modeling Framework” describes the SPES modeling framework. Part III “Application and Evaluation of the SPES Modeling Framework” reports on the validation steps taken to ensure that the framework met the requirements discussed in Part I. Finally, Part IV “Impact of the SPES Modeling Framework” summarizes the results achieved and provides an outlook on future work. The book is mainly aimed at professionals and practitioners who deal with the development of embedded systems on a daily basis. Researchers in academia and industry may use it as a compendium for the requirements and state-of-the-art solution concepts for embedded systems development.
Clean Architecture Addison-Wesley
SysML Distilled is a go-to reference for everyone who wants to start creating accurate and useful system models with SysML. Drawing on his pioneering experience creating models for Lockheed Martin and NASA, Lenny Delligatti illuminates SysML's core components, and shows how to use them even under tight deadlines and other constraints. The reader needn't know all of SysML to create effective models: SysML Distilled quickly teaches what does need to be known, and helps deepen the reader's knowledge incrementally as the need arises.
Lean Architecture Addison-Wesley Professional
"Balancing Agility and Discipline" begins by defining the terms, sweeping aside the rhetoric and drilling down to core concepts. The authors describe a day in the life of developers who live on one side or the other. Their analysis is both objective and grounded, leading to clear and practical guidance for all software professionals.
Balancing Agility and Discipline Pearson Education
Diagramming and process are important topics in today’s software development world, as the UML diagramming language has come to be almost universally accepted. Yet process is necessary; by themselves, diagrams are of little use. Use Case Driven Object Modeling with UML - Theory and Practice combines the notation of UML with a lightweight but effective process - the ICONIX process - for designing and developing software systems. ICONIX has developed a growing following over the years. Sitting between the free-for-all of Extreme Programming and overly rigid processes such as RUP, ICONIX offers just enough structure to be successful.
Value Pack Addison-Wesley
From best-selling author and noted teacher and speaker Yehuda Berg comes a thought-provoking call to action on our current global crisis. Positing that our collective abdication of responsibility — in every facet of our lives, including business and the economy, the environment, government and politics, healthcare, education, and religion — has contributed to the problems and challenges we face, Berg asserts that taking responsibility for our actions (or lack thereof) and their consequences is the key to achieving change for the better. Berg urges readers to access the power within each of us, using the principles of Kabbalah, in order to create the consciousness shift required for lasting positive change.
Software Craftsmanship Springer Science & Business Media
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

Head First Object-Oriented Analysis and Design Addison-Wesley Professional

Gathering customer requirements is a key activity for developing software that meets the customer's needs. A concise and practical overview of everything a requirement's analyst needs to know about establishing customer requirements, this first-of-its-kind book is the perfect desk guide for systems or software development work. The book enables professionals to identify the real customer requirements for their projects and control changes and additions to these requirements. This unique resource helps practitioners understand the importance of requirements, leverage effective requirements practices, and better utilize resources. The book also explains how to strengthen interpersonal relationships and communications which are major contributors to project effectiveness. Moreover, analysts find clear examples and checklists to help them implement best practices.

Unifying User Stories, Use Cases, Story Maps Addison-Wesley Professional

For all developers who create models using the Unified Modeling Language (UML) 2.x The Elements of UMLTM 2.0 Style sets the rules for style that will improve your productivity - especially in teams, where understandability and consistency are critical. Coming from renowned UML expert Scott Ambler, the book furnishes a set of rules for modelling in the UML and describes a collection of standards and guidelines for creating effective UML diagrams that will be concise and easy to understand. It provides conventions for: Class diagrams; Timing Diagrams; Use case diagrams; Composite Structure Diagrams; Sequence diagrams; Interaction Overview Diagrams; Activity diagrams; Object diagrams; State machine diagrams; Package diagrams; Communication diagrams; Deployment diagrams and Component diagrams. The Elements of UMLTM 2.0 Style sets the rules for style that will improve your productivity.

Computer Science Department Recommended Bundle Prentice Hall

This guide will help readers learn how to employ the significant power of use cases to their software development efforts. It provides a practical methodology, presenting key use case concepts.

The Requirements Engineering Handbook "O'Reilly Media, Inc."

Introduces CRC (Class, Responsibility, Collaborator) cards and describes how they can be used in interactive sessions to develop an object-oriented model of an application.

User Stories Applied Springer Nature

Agile use case expert Alistair Cockburn defines user stories, use cases and user story maps in clear and practical terms, showing how to make them effective in combination and alone. This book is suited for self study and classroom teaching.

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