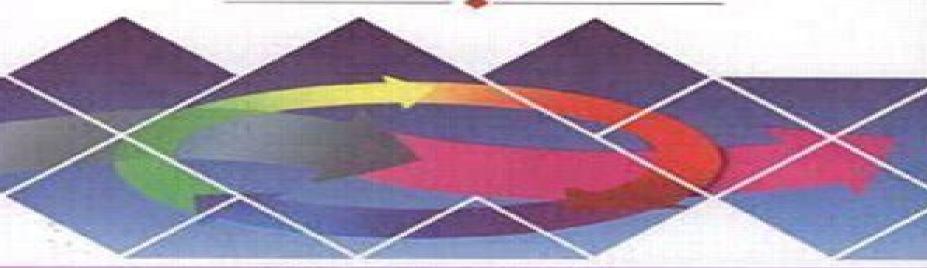
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Object-Oriented Software Engineering

A Use Case Driven Approach



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Book Of Object Oriented Knowledge An Introduction To Object Oriented Software Engineering

Günther Blaschek

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A Book of Object-oriented Knowledge Brian Henderson-Sellers, 1992 A basic introduction to the object oriented approach to software engineering emphasising analysis and design rather than specific programing languages and syntax of Object-oriented Knowledge Brian Henderson-Sellers, 1997 Aiming to provide a comprehensive introduction to object orientation this book places an emphasis on analysis and design and presents a coherent methodology It includes a chapter on software engineering and uses a running example to illustrate the concepts of object orientation Software Luiz Fernando Capretz, 1996-09-01 This is a textbook for a course in object oriented software engineering at advanced undergraduate and graduate levels as well as for software engineers It contains more than 120 exercises of diverse complexity The book discusses fundamental concepts and terminology on object oriented software development assuming little background on software engineering and emphasizes design and maintenance rather than programming It also presents up to date and easily understood methodologies and puts forward a software life cycle model which explicitly encourages reusability during software development and maintenance UML @ Classroom Martina Seidl, Marion Scholz, Christian Huemer, Gerti Kappel, 2015-02-21 This textbook mainly addresses beginners and readers with a basic knowledge of object oriented programming languages like Java or C but with little or no modeling or software engineering experience thus reflecting the majority of students in introductory courses at universities Using UML it introduces basic modeling concepts in a highly precise manner while refraining from the interpretation of rare special cases After a brief explanation of why modeling is an indispensable part of software development the authors introduce the individual diagram types of UML the class and object diagram the sequence diagram the state machine diagram the activity diagram and the use case diagram as well as their interrelationships in a step by step manner The topics covered include not only the syntax and the semantics of the individual language elements but also pragmatic aspects i e how to use them wisely at various stages in the software development process To this end the work is complemented with examples that were carefully selected for their educational and illustrative value Overall the book provides a solid foundation and deeper understanding of the most important object oriented modeling concepts and their application in software development An additional website offers a complete set of slides to aid in teaching the contents of the book exercises and further e learning material Software Architectures Leonor Barroca, Jon Hall, Patrick A. V. Hall, 2000 This book provides a unique overview of different approaches to developing software that is flexible adaptable and easy to maintain and reuse It covers the most recent advances in software architecture research In addition it provides the reader with scalable solutions for engineering and reengineering business processes including architectural components for business applications framework design for Internet distributed business applications and architectural standards for enterprise systems An Introduction to Software Design Chenglie Hu,2023-07-24 This textbook provides a balanced coverage on software design including design principles methodologies and techniques in

contexts of designing modules of small and larger sizes with a multi paradigm viewpoint emphasizing design trade off Commonly used design diagrams and patterns are also covered in terms of the design ideas behind and their effective use The book also explores what software design thinking is the role it plays in a design process and ways to promote it Despite object orientation being still the center of attention there is a strong promotion throughout the book that software design should consider all appropriate design paradigms and methodologies The book is organized in 10 chapters Chapter 1 is dedicated to an exploration of what software design may be and entail Next chapters 2 and 3 are designed to help readers better understand object orientation and the essentials of object oriented design Chapter 4 is then dedicated to the design of methods while chapters 5 6 and 8 respectively include topics about the design of objects modeling with the Unified Modeling Language and the use of design patterns Larger software elements are often directly responsible for the formation of software architecture thus chapter 7 covers four kinds of larger software elements libraries components frameworks and microservices and their architectural implications Chapter 9 finally brings the presentation of software design to an end with a coverage on software architecture focusing on software architectural views Case studies are important in learning how to design software hence chapter 10 then gathers some small design case studies that can be used in earlier chapters as appropriate These case studies can be extended in different ways to provide additional design opportunities This textbook book is intended for a junior level undergraduate course on software design yet the depth of the book makes it also appropriate for a design course at beginning graduate level Professionals may also find the book useful in their professional Object-Oriented Design with UML and Java Kenneth Barclay, John Savage, 2003-12-17 Object Oriented development Design with UML and Java provides an integrated introduction to object oriented design with the Unified Modelling Language UML and the Java programming language The book demonstrates how Java applications no matter how small can benefit from some design during their construction Fully road tested by students on the authors own courses the book shows how these complementary technologies can be used effectively to create quality software It requires no prior knowledge of object orientation though readers must have some experience of Java or other high level programming language This book covers object technology object oriented analysis and design and implementation of objects with Java It includes two case studies dealing with library applications The UML has been incorporated into a graphical design tool called ROME which can be downloaded from the book s website This object modelling environment allows readers to prepare and edit various UML diagrams ROME can be used alongside a Java compiler to generate Java code from a UML class diagram then compile and run the resulting application for hands on learning This text would be a valuable resource for undergraduate students taking courses on O O analysis and design O O modelling Java programming and modelling with UML Integrates design and implementation using Java and UML Includes case studies and exercises Bridges the gap between programming texts and high level analysis books on design Concise Guide to Object-Oriented Programming Kingsley Sage, 2019-04-23 This

engaging textbook provides an accessible introduction to coding and the world of Object Oriented OO programming using Java as the illustrative programming language Emphasis is placed on what is most helpful for the first time coder in order to develop and understand their knowledge and skills in a way that is relevant and practical The examples presented in the text demonstrate how skills in OO programming can be used to create applications and programs that have real world value in daily life Topics and features presents an overview of programming and coding a brief history of programming languages and a concise introduction to programming in Java using BlueJ discusses classes and objects reviews various Java library objects and packages and introduces the idea of the Application Programming Interface API highlights how OO design forms an essential role in producing a useful solution to a problem and the importance of the concept of class polymorphism examines what to do when code encounters an error condition describing the exception handling mechanism and practical measures in defensive coding investigates the work of arrays and collections with a particular focus on fixed length arrays the ArrayList HashMap and HashSet describes the basics of building a Graphical User Interface GUI using Swing and the concept of a design pattern outlines two complete applications from conceptual design to implementation illustrating the content covered by the rest of the book provides code for all examples and projects at an associated website This concise guide is ideal for the novice approaching OO programming for the first time whether they are a student of computer science embarking on a one semester course in this area or someone learning for the purpose of professional development or self improvement The text does not require any prior knowledge of coding software engineering OO or mathematics Handbook Of Software Engineering And Knowledge Engineering, Vol 3: Recent Advances Shi-kuo Chang, 2005-08-25 The book covers the recent new advances in software engineering and knowledge engineering It is intended as a supplement to the two volume handbook of software engineering and knowledge engineering The editor and authors are well known international experts in their respective fields of expertise Each chapter in the book is entirely self contained and gives in depth information on a specific topic of current interest This book will be a useful desktop companion for both practitioners and students of software engineering and knowledge engineering A Guide to MATLAB Object-Oriented Programming Andy H. Register, 2007-05-14 The first book to deliver broad coverage of the documented and undocumented object oriented features of MATLAB this guide aids readers in creating effective software Eight basic functions are discussed constructor subsref subsasgn display struct fieldnames get and set Also explored are inheritance topics and the Class Wizard a powerful MATLAB class generation tool The final section delves into advanced strategies including vectorized classes containers static variables and function fronts protected visibility and pass by reference visibility Included is a CD ROM with source code enabling readers to experiment with modifications and apply new concepts Guide to the Software Engineering Body of Knowledge Alain Abran, James W. Moore, 2004 The purpose of the Guide to the Software Engineering Body of Knowledge is to provide a validated classification of the bounds of the software engineering discipline and topical access that will support this

discipline The Body of Knowledge is subdivided into ten software engineering Knowledge Areas KA that differentiate among the various important concepts allowing readers to find their way quickly to subjects of interest Upon finding a subject readers are referred to key papers or book chapters Emphases on engineering practice lead the Guide toward a strong relationship with the normative literature The normative literature is validated by consensus formed among practitioners and is concentrated in standards and related documents. The two major standards bodies for software engineering IEEE Computer Society Software and Systems Engineering Standards Committee and ISO IEC JTC1 SC7 are represented in the **Object-Oriented Programming** Günther Blaschek, 2012-12-06 Object oriented programming is a popular project buzzword these days What is the reason for this popularity Is object oriented programming the solution to the software crisis or is it just a fad Is it a simple evolutionary step or a radical change in software methodology What is the central idea behind object oriented design Are there special applications for which object oriented program ming is particularly suited Which object oriented language should be used There is no simple answer to these questions Although object oriented programming was invented more than twenty years ago we still cannot claim that we know everything about this programming technique Many new con cepts have been developed during the past decade and new applications and implications of object oriented programming are constantly being discovered This book can only try to explain the nature of object oriented program ming in as much detail as possible It should serve three purposes First it is intended as an introduction to the basic concepts of object oriented program ming Second the book describes the concept of prototypes and explains why and how they can improve the way in which object oriented programs are developed Third it introduces the programming language Omega an object oriented language that was designed with easy safe and efficient software development in mind Handbook of Object Technology Saba Zamir, 1998-12-18 The object oriented paradigm has become one of the dominant forces in the computing world According to a recent survey by the year 2000 more than 80% of development organizations are expected to use object technology as the basis for their distributed development strategies Handbook of Object Technology encompasses the entire spectrum of disciplines and topics related to this rapidly expanding field outlining emerging technologies latest advances current trends new specifications and ongoing research The handbook divides into 13 sections each containing chapters related to that specific discipline Up to date non abstract information provides the reader with practical useful knowledge directly applicable to the understanding and improvement of the reader s job or the area of interest related to this technology Handbook of Object Technology discusses the processes notation and tools for classical OO methodologies as well as information on future methodologies prevalent and emerging OO languages standards and specifications frameworks and patterns databases metrics business objects intranets analysis design tools client server application development environments Handbook Of Software Engineering And Knowledge Engineering, Vol 2: Emerging Technologies Shi-kuo Chang, 2002-05-10 This is the first handbook to cover comprehensively both software engineering and knowledge engineering

two important fields that have become interwoven in recent years Over 60 international experts have contributed to the book Each chapter has been written in such a way that a practitioner of software engineering and knowledge engineering can easily understand and obtain useful information Each chapter covers one topic and can be read independently of other chapters providing both a general survey of the topic and an in depth exposition of the state of the art Practitioners will find this handbook useful when looking for solutions to practical problems Researchers can use it for quick access to the background current trends and most important references regarding a certain topic The handbook consists of two volumes Volume One covers the basic principles and applications of software engineering and knowledge engineering Volume Two will cover the basic principles and applications of visual and multimedia software engineering knowledge engineering data mining for software knowledge and emerging topics in software engineering and knowledge engineering Fireworks Bhuvan Unhelkar, 1999-05-24 After the Y2K Fireworks focuses on the business and technical aspects of surviving the year 2000 problem from an author conversant with both business particularly financial and computer professionals More companies than not will fail to prevent the problems arising from this potential programming disaster After the Y2K Fireworks addresses this part of the market putting the problem in perspective and examining all the various organizational and technical issues required to rebuild **AUUGN** ,1991-12 Introduction to Software Mark Don, 2021-06-12 This book mainly introduces the basic concepts principles and applications of software engineering including software engineering overview software requirements analysis overall design detailed design software coding and testing and software maintenance Which focuses on the object oriented development method In the layout of this book it focuses on the combination of theory and practice uses case teaching mode highlights practical links and sets up task description task analysis knowledge preparation task implementation knowledge linking expansion and improvement operating skills and project summary This book can be used as a reference for software training and software developers Principles of Object-oriented Software Development Anton Eliëns, 1995 Provides full coverage of object oriented technology paying equal attention to the underlying theory and to programming practice The author shows object oriented concepts at all stages of the software life cycle Separate tutorial sections on C Smalltalk and Eiffel are included CIO ,1995-03-01 CIO magazine launched in 1987 provides business technology leaders with award winning analysis and insight on information technology trends and a keen understanding of IT's role in achieving business goals Conceptual Modeling - ER '96 Bernhard Thalheim, 1996-09-25 This volume constitutes the refereed proceedings of the 15th International Conference on Conceptual Modeling ER 96 held in Cottbus Germany in October 1996 The volume presents three invited contributions together with 29 revised full papers selected from 110 submissions The papers cover all current aspects of the entity relationship approach and conceptual modeling they are organized in sections on advanced schema design processes query languages representation integration principles of database design transformation enhanced modelling capturing design information

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