

Principles of Object-Oriented Software Development

Application Development

Principles Of Object Oriented Software Development

Chenglie Hu



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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

Object-oriented Software Development Using Java Xiaoping Jia,2000 Object Oriented Software Development Using Java Principles Patterns and Frameworks focuses on developing skills in designing software particularly in writing well designed medium sized object oriented programs It provides a broad and coherent coverage of object oriented technology including object oriented modeling using the Unified Modeling Language UML object oriented design using Design Patterns and object oriented programming using Java BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved

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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

Principles of Object-Oriented Software Development Anton Eliëns,2019-01-28 Reading through this book and working with it to enhance our understanding is a pleasure From the Foreword to the Second Edition by Clemens Szyperski MicrosoftThis book is an important contribution to object oriented literature bridging the gap between the language and the software engineering communities It covers an usually broad range of topics in an eminently readable fashion and is unique in its balance between theory and practice and its multifaceted approach From the Foreword to the First Edition by Peter Wegner Brown

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Object-Oriented Software Design in C++ Ronald Mak,2024-06-18 Well designed applications run more efficiently have fewer bugs and are easier to revise and maintain Learn the fundamentals of Object Oriented Design by investigating good and bad code Using an engaging before and after approach Object Oriented Software Design in C shows you exactly what bad software looks like and how to fix it with good design principles and patterns In it you ll find Design code test iterations that improve code with each revision Gathering

requirements to make sure you're developing the right application. Design principles like encapsulation and delegation that solve programming problems. Design patterns including Observer Design Pattern that fix architecture issues. Using recursion and multithreading to simplify common solutions.

Journey Through Object-Oriented Software Development Pasquale De Marco, 2025-05-15

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Object-oriented Software: Design And Maintenance Miriam A. M. Capretz, Luiz Fernando Capretz, 1996-09-09. 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.

Object-oriented Software Development Using Java Xiaoping Jia, 2000 **Applications and Approaches to Object-Oriented Software Design: Emerging Research and Opportunities** Altan, Zeynep, 2019-11-29. In today's modernized environment, a growing number of software companies are changing their traditional engineering approaches in

response to the rapid development of computing technologies As these businesses adopt modern software engineering practices they face various challenges including the integration of current methodologies and contemporary design models and the refactoring of existing systems using advanced approaches Applications and Approaches to Object Oriented Software Design Emerging Research and Opportunities is a pivotal reference source that provides vital research on the development of modern software practices that impact maintenance design and developer productivity While highlighting topics such as augmented reality distributed computing and big data processing this publication explores the current infrastructure of software systems as well as future advancements This book is ideally designed for software engineers IT specialists data scientists business professionals developers researchers students and academicians seeking current research on contemporary software engineering methods Principles of Object-oriented Software Development with Ada Ed

Seidewitz, Mike Stark, 1992 **The Art of Object-Oriented Design in Modern Software Development** Pasquale De Marco, 2025-05-16 In a world driven by technology software development has become an art form and object oriented programming OOP stands as a masterpiece This comprehensive guide invites you to embark on an immersive journey into the realm of OOP empowering you with the knowledge and skills to craft elegant and efficient software systems Within these pages you ll delve into the core concepts of OOP understanding the fundamental principles that govern the interaction of objects classes and inheritance Through real world examples and practical exercises you ll explore the Unified Modeling Language UML the industry standard notation for visualizing and documenting software designs Unravel the intricacies of object oriented analysis OOA and design OOD gaining the ability to decompose complex problems into manageable components Master the art of identifying and refining requirements ensuring that software systems fulfill their intended purpose while maintaining flexibility and adaptability Discover the power of object oriented programming languages delving into the nuances of Java Python C and C++ Compare their features strengths and weaknesses and learn how to harness their capabilities to create robust and scalable software solutions Explore advanced object oriented design techniques including inheritance polymorphism abstraction and encapsulation Unlock the secrets of creating reusable maintainable and extensible code that can withstand the test of time and evolving requirements Peer into the future of OOP anticipating emerging trends and developments that will shape the landscape of software engineering Embrace agile and lean methodologies to ensure that your software systems remain responsive to change and deliver continuous value Whether you re a seasoned software developer seeking to refine your skills or a newcomer eager to embrace the power of OOP this book is your ultimate companion Dive in and unlock the potential of object oriented programming transforming your software development journey into a masterpiece of innovation and excellence If you like this book write a review on google books **EBOOK:**

Object-Oriented Software Engineering: Practical Software Development Using UML and Java LETHBRIDGE, TIM, 2004-12-16 EBOOK Object Oriented Software Engineering Practical Software Development Using UML and Java

Advanced Concepts, Life Cycle Models and Tools for Object-oriented Software Development, 1997 **Software Development, Design and Coding** John F. Dooley, 2017-11-25 Learn the principles of good software design and how to turn those principles into great code This book introduces you to software engineering from the application of engineering principles to the development of software You ll see how to run a software development project examine the different phases of a project and learn how to design and implement programs that solve specific problems It s also about code construction how to write great programs and make them work Whether you re new to programming or have written hundreds of applications in this book you ll re examine what you already do and you ll investigate ways to improve Using the Java language you ll look deeply into coding standards debugging unit testing modularity and other characteristics of good programs With *Software Development Design and Coding* author and professor John Dooley distills his years of teaching and development experience to demonstrate practical techniques for great coding What You ll Learn Review modern agile methodologies including Scrum and Lean programming Leverage the capabilities of modern computer systems with parallel programming Work with design patterns to exploit application development best practices Use modern tools for development collaboration and source code controls Who This Book Is For Early career software developers or upper level students in software engineering courses *Applied Software Architecture* Christine Hofmeister, Robert Nord, Dilip Soni, 2000 Designing a large software system is an extremely complicated undertaking that requires juggling differing perspectives and differing goals and evaluating differing options *Applied Software Architecture* is the best book yet that gives guidance as to how to sort out and organize the conflicting pressures and produce a successful design Len Bass author of *Software Architecture in Practice* Quality software architecture design has always been important but in today s fast paced rapidly changing and complex development environment it is essential A solid well thought out design helps to manage complexity to resolve trade offs among conflicting requirements and in general to bring quality software to market in a more timely fashion *Applied Software Architecture* provides practical guidelines and techniques for producing quality software designs It gives an overview of software architecture basics and a detailed guide to architecture design tasks focusing on four fundamental views of architecture conceptual module execution and code Through four real life case studies this book reveals the insights and best practices of the most skilled software architects in designing software architecture These case studies written with the masters who created them demonstrate how the book s concepts and techniques are embodied in state of the art architecture design You will learn how to create designs flexible enough to incorporate tomorrow s technology use architecture as the basis for meeting performance modifiability reliability and safety requirements determine priorities among conflicting requirements and arrive at a successful solution and use software architecture to help integrate system components Anyone involved in software architecture will find this book a valuable compendium of best practices and an insightful look at the critical role of architecture in software development 0201325713B07092001 **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 development

Information Systems Development Marite Kirikova,2002 This volume is the result of the 11th International Conference on Information Systems Development Methods and Tools Theory and Practice held in Riga Latvia September 12 14 2002 The purpose of this conference was to address issues facing academia and industry when specifying developing managing reengineering and improving information systems This volume is an excellent reference for anyone in the fields of general management systems and control theory software engineering and operation systems

Use Case Modeling Kurt Bittner,Ian Spence,2003 Discusses how to define and organize use cases that model the user requirements of a software application The approach focuses on identifying all the parties who will be using the system then writing detailed use case descriptions and structuring the use case model An ATM example runs throughout the book The authors work at Rational Software Annotation copyrighted by Book News Inc Portland OR

Design Patterns in Action Dinesh Varyani,2025-04-29 Tired of wrestling with complex unmaintainable code Design Patterns in Action equips you with the tools to build elegant robust and scalable software This practical guide delves into design patterns demonstrating their application through realworld Java examples Master core principles like OOPS SOLID and learn to implement creational structural and behavioral patterns to solve common software challenges Whether you re a seasoned developer or just

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