

Serge Demeyer, Stéphane Ducasse, Oscar Nierstrasz

Object-Oriented Reengineering

Patterns

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Object Oriented Reengineering Patterns Author Oscar Nierstrasz Oct 2009

SA Adler



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Object-Oriented Reengineering Patterns Serge Demeyer, Stéphane Ducasse, Oscar Nierstrasz, 2002-07-16 The documentation is missing or obsolete and the original developers have departed Your team has limited understanding of the system and unit tests are missing for many if not all of the components When you fix a bug in one place another bug pops up somewhere else in the system Long rebuild times make any change difficult All of these are signs of software that is close to the breaking point Many systems can be upgraded or simply thrown away if they no longer serve their purpose Legacy software however is crucial for operations and needs to be continually available and upgraded How can you reduce the complexity of a legacy system sufficiently so that it can continue to be used and adapted at acceptable cost Based on the authors industrial experiences this book is a guide on how to reverse engineer legacy systems to understand their problems and then reengineer those systems to meet new demands Patterns are used to clarify and explain the process of understanding large code bases hence transforming them to meet new requirements The key insight is that the right design and organization of your system is not something that can be evident from the initial requirements alone but rather as a consequence of understanding how these requirements evolve Describes how to reverse engineer a monolithic system to understand how it really works and how to identify potential problems Includes reengineering patterns that tackle well known reengineering techniques often encountered in object oriented programming such as introducing polymorphism factoring out common behavior detecting duplicated code and understanding design Shows how to build a culture of continuous reengineering for achieving flexible and maintainable object oriented systems

Design Patterns for Object-oriented Software Development Wolfgang Pree, 1994 **Object-Oriented Technology and Computing Systems Re-Engineering** H. S. M. Zedan, A Cau, 1999-10-01 This book delivers the latest developments in object technology and their impact in computing systems re engineering Object oriented programming is here shown to provide support for constructing large scale systems that are cheaply built and with reusable components adaptable to changing requirements and use efficient and cost effective techniques Internationally recognised authorities from Finland France Germany Italy Poland Spain the UK and the USA here record their research and development work on the industrial techniques and structured object oriented methodologies in forward and reverse engineering of computing systems This book takes stock of progress of that work showing its promise and feasibility and how its structured technology can overcome the limitations of forward engineering methods used in industry Forward methods are focused in the domain of reverse engineering to implement a high level of specification for existing software The book contains the selected quintessential content of the first UK Colloquium on Object Technology and Systems Re Engineering held at Oxford University in 1998 The conference was sponsored by British Telecom Laboratories EMSI limited and the OOSP Specialised Group of The British Computer Society Delivers the latest developments in object technology and their impact in computing systems re engineering Provides support

for constructing large scale systems that are cheaply built and with reusable components adaptable to changing requirements and use efficient and cost effective techniques Contains the content of the first UK Colloquium on Object Technology and Systems Re Engineering held at Oxford University in 1998 **Design Patterns** ,2002 Object Oriented Software Engineering Ian Holmes,Benjamin Curtis,Kenneth Gu,2024 This book is full of practical hands on re engineering knowledge and expertise presented in a form that makes it easy to understand and use This book documents a catalogue of patterns for reverse engineering and reengineering legacy systems The subject matter is presented in a lucid and succinct style so that even those who do not have a prerequisite knowledge of the subject can easily understand it This book is addressed mainly to practitioners who need to reengineer The patterns in this book help everyone who is concerned with using reengineering to guide their work Object-oriented Reengineering of Legacy Systems Joseph Casotti,Allen Hole,1997 Design Patterns: Elements of Reusable Object-Oriented Software Erich Gamma,1995 Capturing a wealth of experience about the design of object oriented software four top notch designers present a catalog of simple and succinct solutions to commonly occurring design problems Previously undocumented these 23 patterns allow designers to create more flexible elegant and ultimately reusable designs without having to rediscover the design solutions themselves **Design Patterns Explained A New Perspective On Object Oriented Design** Shalloway, The Object Advantage Ivar Jacobson,Maria Ericsson,Agneta Jacobson,1994 Indhold Business engineering What is business modelling What is object orientation Object oriented business engineering an overview Architecture Reversing the existing business Forward business engineering An example Building the supporting information system Managing object oriented business engineering Scaling up to large business Object Oriented Design and Patterns with Wiley Plus Set Cay S. Horstmann,2006 Reverse Engineering Low-level Design Patterns from Object-oriented Code Chandra Shrivastava,1996 Design Patterns Explained Alan Shalloway,James R. Trott,2004-10-12 One of the great things about the book is the way the authors explain concepts very simply using analogies rather than programming examples this has been very inspiring for a product I m working on an audio only introduction to OOP and software development Bruce Eckel I would expect that readers with a basic understanding of object oriented programming and design would find this book useful before approaching design patterns completely Design Patterns Explained complements the existing design patterns texts and may perform a very useful role fitting between introductory texts such as UML Distilled and the more advanced patterns books James Noble Leverage the quality and productivity benefits of patterns without the complexity Design Patterns Explained Second Edition is the field s simplest clearest most practical introduction to patterns Using dozens of updated Java examples it shows programmers and architects exactly how to use patterns to design develop and deliver software far more effectively You ll start with a complete overview of the fundamental principles of patterns and the role of object oriented analysis and design in contemporary software development Then using easy to understand sample code Alan Shalloway and James Trott illuminate dozens of today

s most useful patterns their underlying concepts advantages tradeoffs implementation techniques and pitfalls to avoid Many patterns are accompanied by UML diagrams Building on their best selling First Edition Shalloway and Trott have thoroughly updated this book to reflect new software design trends patterns and implementation techniques Reflecting extensive reader feedback they have deepened and clarified coverage throughout and reorganized content for even greater ease of understanding New and revamped coverage in this edition includes Better ways to start thinking in patterns How design patterns can facilitate agile development using eXtreme Programming and other methods How to use commonality and variability analysis to design application architectures The key role of testing into a patterns driven development process How to use factories to instantiate and manage objects more effectively The Object Pool Pattern a new pattern not identified by the Gang of Four New study practice questions at the end of every chapter Gentle yet thorough this book assumes no patterns experience whatsoever It s the ideal first book on patterns and a perfect complement to Gamma s classic Design Patterns If you re a programmer or architect who wants the clearest possible understanding of design patterns or if you ve struggled to make them work for you read this book *Object-oriented Software Engineering* George Wilkie,1993 *The FAMOOS Object Oriented Reengineering Handbook* Holger Bär,1999 **Object-oriented Design Patterns** ,2007

Design Patterns Erich Gamma,Richard Helm,Ralph Johnson,John Vlissides,2003-09 **Reengineering Object-based Systems to the Object-oriented Model** Saveen Venkat Reddy,1996 **A Software Reengineering Process for an Object-oriented Environment** Dhanya Nimalee Perera,University of Houston--Clear Lake. School of Natural and Applied Sciences,1993 *Design Patterns* Addison-Wesley Longman, Incorporated,1998-05-01 *An Approach to Design Pattern Reuse in Object-oriented Software Development* S. Idris,P. J. Layzell,University of Manchester Institute of Science and Technology. Department of Computation,1997

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