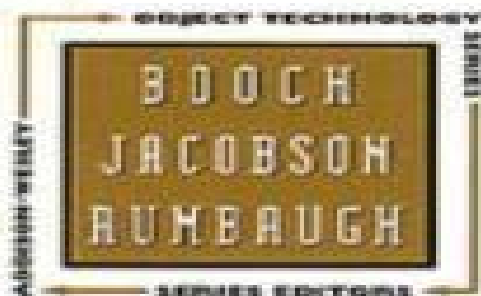


BUILDING SCALABLE DATABASE APPLICATIONS

OBJECT-ORIENTED DESIGN,
ARCHITECTURES, AND IMPLEMENTATIONS

PETER M. HEINCKIENS

Foreword by Mary Loomis



Building Scalable Database Applications Object Oriented Design Architectures And Implementations

**Christine Hofmeister, Robert Nord, Dilip
Soni**



Building Scalable Database Applications Object Oriented Design Architectures And Implementations:

Building Scalable Database Applications Peter Marc Heinckens, 1998 A guide to building business and database client server applications with reusable components for software engineers and programmers Business and database models illustrate challenges in manipulating object storage and retrieval from a developer s point of view emphasizing integration of legacy and relational systems with object oriented systems Coverage includes Scoop architecture designing reusable business components modeling and implementing associations and separating the user interface from the business model Annotation copyrighted by Book News Inc Portland OR Object-Oriented Analysis and Design with Applications Grady Booch, Robert Maksimchuk, Michael Engle, Jim Conallen, Kelli Houston, Bobbi Young Ph.D., 2007-04-30 Object Oriented Design with Applications has long been the essential reference to object oriented technology which in turn has evolved to join the mainstream of industrial strength software development In this third edition the first revision in 13 years readers can learn to apply object oriented methods using new paradigms such as Java the Unified Modeling Language UML 2 0 and NET The authors draw upon their rich and varied experience to offer improved methods for object development and numerous examples that tackle the complex problems faced by software engineers including systems architecture data acquisition cryptanalysis control systems and Web development They illustrate essential concepts explain the method and show successful applications in a variety of fields You ll also find pragmatic advice on a host of issues including classification implementation strategies and cost effective project management New to this new edition are An introduction to the new UML 2 0 from the notation s most fundamental and advanced elements with an emphasis on key changes New domains and contexts A greatly enhanced focus on modeling as eagerly requested by readers with five chapters that each delve into one phase of the overall development lifecycle Fresh approaches to reasoning about complex systems An examination of the conceptual foundation of the widely misunderstood fundamental elements of the object model such as abstraction encapsulation modularity and hierarchy How to allocate the resources of a team of developers and manage the risks associated with developing complex software systems An appendix on object oriented programming languages This is the seminal text for anyone who wishes to use object oriented technology to manage the complexity inherent in many kinds of systems Sidebars Preface Acknowledgments About the Authors Section I Concepts Chapter 1 Complexity Chapter 2 The Object Model Chapter 3 Classes and Objects Chapter 4 Classification Section II Method Chapter 5 Notation Chapter 6 Process Chapter 7 Pragmatics Chapter 8 System Architecture Satellite Based Navigation Chapter 9 Control System Traffic Management Chapter 10 Artificial Intelligence Cryptanalysis Chapter 11 Data Acquisition Weather Monitoring Station Chapter 12 Web Application Vacation Tracking System Appendix A Object Oriented Programming Languages Appendix B Further Reading Notes Glossary Classified Bibliography Index 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 **UML for Database Design** Eric J. Naiburg, Robert A. Maksimchuck, 2001 Typically analysis development and database teams work for different business units and use different design notations With UML and the Rational Unified Process RUP however they can unify their efforts eliminating time consuming error prone translations and accelerating software to market In this book two data modeling specialists from Rational Software Corporation show exactly how to model data with UML and RUP presenting proven processes and start to finish case studies The book utilizes a running case study to bring together the entire process of data modeling with UML Each chapter dissects a different stage of the data modeling process from requirements through implementation For each stage the authors cover workflow and participants roles key concepts proven approach practical design techniques and more Along the way the authors demonstrate how integrating data modeling into a unified software design process not only saves time and money but gives all team members a far clearer understanding of the impact of potential changes The book includes a detailed glossary as well as appendices that present essential Use Case Models and descriptions For all software team members managers team leaders systems and data analysts architects developers database designers and others involved in building database applications for the enterprise **Fundamentals of Object-oriented Design in UML** Meilir Page-Jones, 2000 With this book object oriented developers can hone the skills necessary to create the foundation for quality software a first rate design The book introduces notation principles and terminology that developers can use to evaluate their designs and discuss them

meaningfully with colleagues Every developer will appreciate the detailed diagrams on point examples helpful exercises and troubleshooting techniques

The Rational Unified Process Made Easy Per Kroll,Philippe Kruchten,2003-04-08 Per Kroll and Philippe Kruchten are especially well suited to explain the RUP because they have been the central forces inside Rational Software behind the creation of the RUP and its delivery to projects around the world From the Foreword by Grady Booch This book is a comprehensive guide to modern software development practices as embodied in the Rational Unified Process or RUP With the help of this book s practical advice and insight software practitioners will learn how to tackle challenging development projects small and large using an iterative and risk driven development approach with a proven track record The Rational Unified Process Made Easy will teach you the key points involved in planning and managing iterative projects the fundamentals of component design and software architecture and the proper employment of use cases All team members from project managers to analysts from developers to testers will learn how to immediately apply the RUP to their work You will learn that the RUP is a flexible versatile process framework that can be tailored to suit the needs of development projects of all types and sizes Key topics covered include How to use the RUP to develop iteratively adopt an architecture centric approach mitigate risk and verify software quality Tasks associated with the four phases of the RUP Inception Elaboration Construction and Transition Roles and responsibilities of project managers architects analysts developers testers and process engineers in a RUP project Incrementally adopting the RUP with minimal risk Common patterns for failure with the RUP and how to avoid them Use this book to get quickly up to speed with the RUP so you can easily employ the significant power of this process to increase the productivity of your team

Visual Modeling with Rational Rose 2002 and UML Terry Quatrani,2003 Thoroughly updated and fully compliant with Rational Rose 2002 the latest release of the industry s most popular software modeling tool this edition contains simplified useful case studies and helps the reader understand the core concepts of modeling and how to use UML effectively

Building Web Applications with UML Jim Conallen,2003 Conallen introduces architects and designers and client server systems to issues and techniques of developing software for the Web He expects readers to be familiar with object oriented principles and concepts particularly with UML unified modeling language and at least one Web application architecture or environment The second edition incorporates both technical developments and his experience since 1999 He does not provide a bibliography

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Analysis Patterns Martin Fowler,1997 Martin Fowler is a consultant specializing in object oriented analysis and design This book presents and discusses a number of object models derived from various problem domains All patterns and models presented have been derived from the author s own consulting work and are based on real business cases

The UML Profile for Framework Architectures Marcus Fontoura,Wolfgang Pree,Bernhard Rumpe,2002 This book presents a set of principles for designing frameworks and practical techniques for adapting them efficiently It also describes how UML may be used to model frameworks and their applications

and proposes a set of extensions to the UML which apply specifically to framework design

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Introduction

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