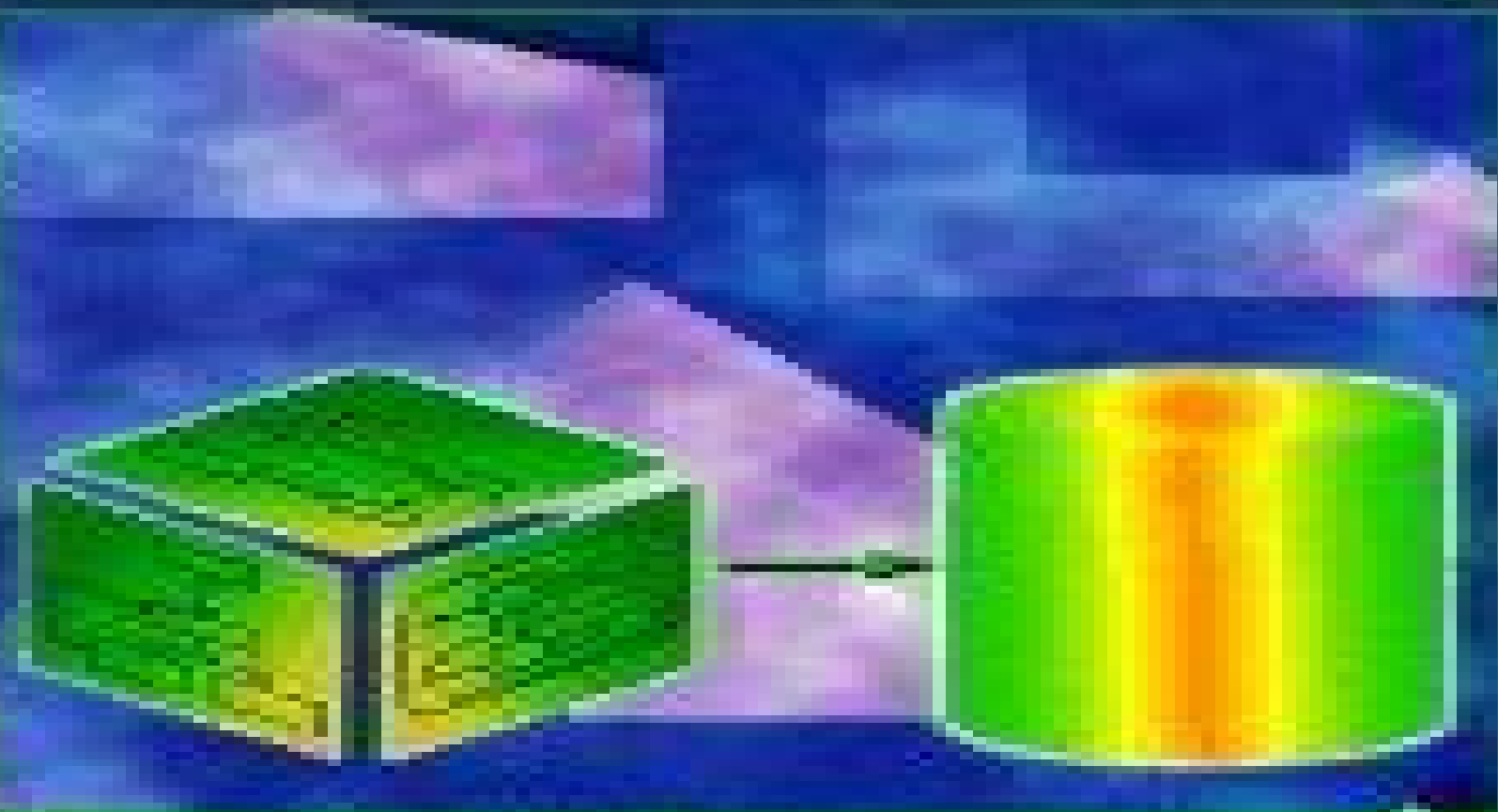


Object-Oriented Modeling and Design for Database Applications

MICHAEL BLAHA / WILLIAM PREMERANI



Foreword by James Rumbaugh

Object Oriented Modeling And Design For Database Applications

**Rivero, Laura C., Doorn, Jorge
Horacio, Ferraggine, Viviana E.**



Object Oriented Modeling And Design For Database Applications:

Object-oriented Modeling and Design for Database Applications Michael Blaha, William Premerlani, 1998 Written from a software engineering perspective this book shows programmers developers how to build object oriented database applications for distributed client server environments using the newest update of the OMT methodology UML

Encyclopedia of Database Technologies and Applications Rivero, Laura C., Doorn, Jorge Horacio, Ferraggine, Viviana E., 2005-06-30 Addresses the evolution of database management technologies and applications along with the progress and endeavors of new research areas P xiii

Advances in Object-oriented Data Modeling M. Papazoglou, S. Spaccapietra, Zahir Tari, 2000 This book focuses on recent developments in representational and processing aspects of complex data intensive applications Until recently information systems have been designed around different business functions such as accounts payable and inventory control Object oriented modeling in contrast structures systems around the data the objects that make up the various business functions Because information about a particular function is limited to one place to the object the system is shielded from the effects of change Object oriented modeling also promotes better understanding of requirements clear designs and more easily maintainable systems This book focuses on recent developments in representational and processing aspects of complex data intensive applications The chapters cover hot topics such as application behavior and consistency reverse engineering interoperability and collaboration between objects and work flow modeling Each chapter contains a review of its subject followed by object oriented modeling techniques and methodologies that can be applied to real life applications Contributors F Casati S Ceri R Cicchetti L M L Delcambre E F Ecklund D W Embley G Engels J M Gagnon R Godin M Gogolla L Groenewegen G S Jensen G Kappel B J Kr mer S W Liddle R Missaoui M Norrie M P Papazoglou C Parent B Perniei P Poncelet G Pozzi M Schreft R T Snodgrass S Spaccapietra M Stumptner M Teisseire W J van den Heuevel S N Woodfield

Object - Oriented Modeling And Design With Uml, 2/E Michael Blaha, Blaha, 2007-09 The revision offers a crisp clear explanation of the basics of object oriented thinking via UML models then presents a process for applying these principles to software development including C Java and relational databases An integrated case study threads throughout the book illustrating key ideas as well as their application

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

An Integrated Approach to Software Engineering Pankaj Jalote,2012-12-06 A lot has changed in the fast moving area of software engineering since the first edition of this book came out However two particularly dominant trends are clearly discernible focus on software processes and object orientation A lot more attention is now given to software processes because process improvement is considered one of the basic mechanisms for improving quality and productivity And the object oriented approach is considered by many one of the best hopes for solving some of the problems faced by software developers In this second edition these two trends are clearly highlighted Aseparate chapter has been included entitled Software Processes In addition to talking about the various development process models the chapter discusses other processes in software development and other issues related to processes Object orientation figures in many chapters Object oriented analysis is discussed in the chapter on requirements while there is a complete chapter entitled Object Oriented Design Some aspects of object oriented programming are discussed in the chapter on coding while specific techniques for testing object oriented programs are discussed in the chapter on testing Overall if one wants to develop software using the paradigm of object orientation aB aspects of development that require different handling are discussed Most of the other chapters have also been enhanced in various ways In particular the chapters on requirements specification and testing have been considerably enhanced

Designing Software Product Lines with UML Hassan Gomaa,2005 Designing Software Product Lines with UML is well written informative and addresses a very important topic It is a valuable contribution to the literature in this area and

offers practical guidance for software architects and engineers Alan Brown Distinguished Engineer Rational Software IBM Software Group Goma's process and UML extensions allow development teams to focus on feature oriented development and provide a basis for improving the level of reuse across multiple software development efforts This book will be valuable to any software development professional who needs to manage across projects and wants to focus on creating software that is consistent reusable and modular in nature Jeffrey S Hammond Group Marketing Manager Rational Software IBM Software Group This book brings together a good range of concepts for understanding software product lines and provides an organized method for developing product lines using object oriented techniques with the UML Once again Hassan has done an excellent job in balancing the needs of both experienced and novice software engineers Robert G Pettit IV Ph D Adjunct Professor of Software Engineering George Mason University This breakthrough book provides a comprehensive step by step approach on how to develop software product lines which is of great strategic benefit to industry The development of software product lines enables significant reuse of software architectures Practitioners will benefit from the well defined PLUS process and rich case studies Hurley V Blankenship II Program Manager Justice and Public Safety Science Applications International Corporation The Product Line UML based Software engineering PLUS is leading edge With the author's wide experience and deep knowledge PLUS is well harmonized with architectural and design pattern technologies Michael Shin Assistant Professor Texas Tech University Long a standard practice in traditional manufacturing the concept of product lines is quickly earning recognition in the software industry A software product line is a family of systems that shares a common set of core technical assets with preplanned extensions and variations to address the needs of specific customers or market segments When skillfully implemented a product line strategy can yield enormous gains in productivity quality and time to market Studies indicate that if three or more systems with a degree of common functionality are to be developed a product line approach is significantly more cost effective To model and design families of systems the analysis and design concepts for single product systems need to be extended to support product lines Designing Software Product Lines with UML shows how to employ the latest version of the industry standard Unified Modeling Language UML 2.0 to reuse software requirements and architectures rather than starting the development of each new system from scratch Through real world case studies the book illustrates the fundamental concepts and technologies used in the design and implementation of software product lines This book describes a new UML based software design method for product lines called PLUS Product Line UML based Software engineering PLUS provides a set of concepts and techniques to extend UML based design methods and processes for single systems in a new dimension to address software product lines Using PLUS the objective is to explicitly model the commonality and variability in a software product line Hassan Goma explores how each of the UML modeling views use case static state machine and interaction modeling can be extended to address software product families He also discusses how software architectural patterns can be used to develop a reusable component based architecture for a

product line and how to express this architecture as a UML platform independent model that can then be mapped to a platform specific model Key topics include Software product line engineering process which extends the Unified Development Software Process to address software product lines Use case modeling including modeling the common and variable functionality of a product line Incorporating feature modeling into UML for modeling common optional and alternative product line features Static modeling including modeling the boundary of the product line and information intensive entity classes Dynamic modeling including using interaction modeling to address use case variability State machines for modeling state dependent variability Modeling class variability using inheritance and parameterization Software architectural patterns for product lines Component based distributed design using the new UML 2.0 capability for modeling components connectors ports and provided and required interfaces Detailed case studies giving a step by step solution to real world product line problems Designing Software Product Lines with UML is an invaluable resource for all designers and developers in this growing field The information technology and case studies presented here show how to harness the promise of software product lines and the practicality of the UML to take software design quality and efficiency to the next level An enhanced online index allows readers to quickly and easily search the entire text for specific topics

Journal of Object-oriented Programming, 1998 *Database Systems For Advanced Applications '93 - Proceedings Of The 3rd International Symposium On Database Systems For Advanced Applications* S C Moon, H Ikeda, 1993-03-18 This proceedings volume contains 52 technical research papers on multidatabases distributed DB multimedia DB object oriented DB real time DB temporal DB deductive DB and intelligent user interface Some industrial papers are also included

Object-oriented Modeling and Design James Rumbaugh, 1991 This text applies object oriented techniques to the entire software development cycle The Object Constraint Language Jos B. Warmer, Anneke G. Kleppe, 2003 bull Learn to better leverage the significant power of UML 2.0 and the Model Driven Architecture standard bull The OCL helps developers produce better software by adding vital definition to their designs bull Updated to reflect the latest version of the standard OCL 2.0 □□□□□□, 1998 Technology of Object-oriented Languages and Systems : TOOLS 30 Donald G. Firesmith, 1999 The August 1999 conference concentrated on the delivery of high quality software on schedule and within budget offering practical experience from both industry and academia The 37 technical papers provide insights from lessons learned on real projects covering such topics as databases object ori **Database and Expert Systems Applications**, 1996

Designing Database Applications with Objects and Rules Stefano Ceri, Piero Fraternali, 1997 This text provides the Intelligent Database Environment for Advanced Applications IDEA methodology for the development maintenance and application of modern database systems It seeks to enable the reader to take advantage of current advances in software engineering techniques The book is split into three parts covering an introduction to the models and languages used in the methodology the process of analysis design prototyping and implementation and how to put the methodology to work

Object-oriented Analysis and Design with Applications Grady Booch, 1994 This revision of Grady Booch's classic offers the first industry wide standard for notation in developing large scale object oriented systems Laying the groundwork for the development of complex systems based on the object model the author works in C to provide five fully developed design examples along with many smaller applications Three of these capstone projects are new with this edition including an inventory tracking system which implements a client server The other four span problem domains as diverse as data acquisition for scientific tools framework artificial intelligence and command and control To measure progress metrics in object development are suggested so that the developer knows how the project is going In addition the author demonstrates good and bad object designs and shows how to manage the trade offs in complex systems

Object-oriented Software Engineering Bernd Bruegge, Allen H. Dutoit, 2004 This thoroughly updated text teaches students or industry R D practitioners to successfully negotiate the terrain for building and maintaining large complex software systems The authors introduce the basic skills needed for a developer to apply software engineering techniques Next they focus on methods and technologies that enable developers to specify design and implement complex systems Finally the authors show how to support the system changes throughout the software life cycle

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The Unified Modeling Language, 2001 *Software Systems in Engineering* Murat Tanik, Wilhelm Rossak, Daniel Cooke, 1994 *Seventh International Workshop on Database and Expert Systems Applications* Roland R. Wagner, 1996 Annotation The proceedings of the IEEE International Workshop on Database and Expert Systems Applications held in September 1996 comprise a total of 25 sessions focusing on object oriented databases active and temporal aspects expert and knowledge based systems applications transaction concepts and physical aspects advanced database and information system methods CSCW and workflow management systems and relational and extended relational approaches Lacks a subject index Annotation copyrighted by Book News Inc Portland OR

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