Introduction to Object-Oriented Databases - Won Kim

2008-07-01 Introduction to Object-Oriented Databases provides the first unified and coherent presentation of the essential concepts and techniques of object-oriented databases. It consolidates the results of research and development in the semantics and implementation of a full spectrum of database facilities for object-oriented systems, including data model, query, authorization, schema evolution, storage structures, query optimization, transaction management, versions, composite objects, and integration of a programming language and a database system. The book draws on the author's Orion project at MCC, currently the most advanced object-oriented database system, and places this work in a larger context by using relational database systems and other object-oriented systems for comparison. Won Kim is Director of the Object-Oriented and Distributed Systems Laboratory at Microelectronics and Computer Technology Corporation (MCC) in Austin, Texas.


**Fundamentals of Object Databases**-Suzanne W. Dietrich

2011 This monograph presents the fundamentals of object databases, with a specific focus on conceptual modeling of object database designs. After an introduction to the fundamental concepts of object-oriented data, the monograph provides a review of object-oriented conceptual modeling techniques using side-by-side Enhanced Entity Relationship diagrams and Unified Modeling Language conceptual class diagrams that feature class hierarchies with specialization constraints and object associations. These object-oriented conceptual models provide the basis for introducing case studies that illustrate the use of object features within the design of object-oriented and object-relational databases. For the object-oriented database perspective, the Object Data Management Group data definition language provides a portable, language-independent specification of an object schema, together with an SQL-like object query language. LINQ (Language INtegrated Query) is presented as a case study of an object query language together with its use in the db4o open-source object-oriented database. For the object-relational perspective, the object-relational features of the SQL standard are presented together with an accompanying case study of the object-relational features of Oracle. For
completeness of coverage, an appendix provides a mapping of object-oriented conceptual designs to the relational model and its associated constraints."--P. [4] of cover.

Object-oriented Database Design Clearly Explained-Jan L. Harrington 2000 Object-oriented database management systems are growing in popularity, thanks to changing corporate needs and the emergence of several viable products. However, while most database professionals have had at least some exposure to the basic concepts of object-oriented programming, information relating specifically to object-oriented databases has remained hard to come by. Object-Oriented Database Design Clearly Explained remedies this, providing developers and administrators with a ground-up understanding of the logical design of object-oriented databases. Focusing on the principles of the object paradigm while noting the particularities of specific products, this book will give readers the know-how required to produce effective designs in any environment. Key Features * Equips the reader with a sound understanding of the object paradigm and all key concepts, illustrating its points with three in-depth case * Presents product- and platform-neutral guidelines and advice, teaching readers the underlying object-oriented design principles they will need to apply regardless of the specific technology adopted * Details today's OODBMS standards and the variety of approaches taken by current products * Serves as a companion volume to Relational Database Design Clearly Explained, providing parallel examples that help to clarify relational and object-oriented data models
 Nowadays, newly developed software is often already obsolete by the time it is introduced. The object-oriented concept provides a solution to this "crisis," by allowing objects to be used in a wide range of programs. Object-oriented applications development with databases places special demands on the DBMS and the development environment. This book provides a detailed description of the object model of the Caché post-relational database. In addition, the reader is guided step-by-step through the development of a post-relational application. The accompanying CD-ROM contains the associated Windows software.

- **Object-oriented Oracle**- 2006-01-01 "The book covers comprehensive and fundamental aspects of the implementation of object-oriented modeling in a DBMS that was originated as a pure Relational Database, Oracle"--Provided by publisher.

- **Object-oriented Modeling and Design for Database Applications**-Michael Blaha 1998 This new book refines, customizes, and extends the general Object Modeling Technique (OMT) methodology for the specific subject matter of database applications. By restricting the scope of coverage, the authors are able to present more focused examples and elaborate upon the appropriate methodological steps. The authors present a uniform
treatment that addresses files, relational databases, and object-oriented databases.

**Object-oriented Databases**-John G. Hughes 1991 A comprehensive introduction to object-oriented concepts as applied to databases and knowledge-based systems. The principles of semantic data modelling are described in depth and this is followed by a comprehensive description of the application of object-oriented techniques in this area. Separate chapters are devoted to implementation aspects such as persistence and concurrency.

**Advanced R**-Hadley Wickham 2015-09-15 An Essential Reference for Intermediate and Advanced R Programmers Advanced R presents useful tools and techniques for attacking many types of R programming problems, helping you avoid mistakes and dead ends. With more than ten years of experience programming in R, the author illustrates the elegance, beauty, and flexibility at the heart of R. The book develops the necessary skills to produce quality code that can be used in a variety of circumstances. You will learn: The fundamentals of R, including standard data types and functions Functional programming as a useful framework for solving wide classes of problems The positives and negatives of metaprogramming How to write fast, memory-efficient code This book not only helps current R users become R programmers but also shows existing programmers what’s special about R. Intermediate R programmers can dive deeper into R and learn new
strategies for solving diverse problems while programmers from other languages can learn the details of R and understand why R works the way it does.

**Succeeding with Object Databases**-Akmal B. Chaudhri
2001 Take a tour with leading researchers and developers for a practical look at object databases. Whether you currently work with or are thinking of moving to object databases, Chaudhri and Zicari provide a collection of real-world case studies and examples that demonstrate how some of the world's leading companies and research institutions are leveraging Java, XML, and Object Relational Systems to build robust databases. Starting with a comprehensive introduction to object and object-relational databases, the book then offers detailed discussions on some of the latest topics in the field such as JDBC and SQLJ support in relational databases and database modeling using UML. You'll also learn about object-to-relational mapping tools, architectural issues that influence performance, and the issues of complexity and scale. How popular tools from Computer Associates, eXcelon, GemStone, Objectivity, Oracle, Versant, and Poet were used in the case studies is also discussed. The companion Web site at www.wiley.com/compbooks/chaudhri includes links to object-oriented database software applications and additional resources. Visit our Web site at www.wiley.com/compbooks/Visit the companion Web site at www.wiley.com/compbooks/chaudhri
Object-Oriented Database System-Hiroshi Ishikawa
2012-12-06 Computer Science Workbench is a monograph series which will provide you with an in depth working knowledge of current developments in computer technology. Every volume in this series will deal with a topic of importance in computer science and elaborate on how you yourself can build systems related to the main theme. You will be able to develop a variety of systems, including computer software tools, computer graphics, computer animation, database management systems, and computer-aided design and manufacturing systems. Computer Science Workbench represents an important new contribution in the field of practical computer technology. Tosiyasu L. Kunii
Preface The goal of this book is to give concrete answers to questions such as what object oriented databases are, why they are needed, how they are implemented, and how they are applied, by describing a research prototype object-oriented database system called Jasmine. That is, this book is aimed at creating a consistent view to object-oriented databases. The contents of this book are directly based on the results of the Jasmine project conducted at Fujitsu Laboratories, Ltd. The book is a polished version of my doctoral dissertation, which includes research papers which I have authored and published.

Web Database Applications with PHP and MySQL-Hugh E. Williams 2002 Combines language tutorials with application design advice to cover the PHP server-side scripting language and the MySQL database engine.
C++ Object Databases-David Jordan 1998 Written by ODGM's C++ representative, this pragmatic guidebook is the first comprehensive introduction to programming object-oriented databases with OQL. It offers comparisons with SQL, with which readers are already familiar, as a bridge to understanding OQL and as a means of contrasting object-oriented versus relational database development.

An Introduction to Object-Oriented Programming with Visual Basic .NET-Dan Clark 2008-01-01 Dan Clark shows beginning VB.NET programmers how one goes about architecting an object oriented programming solution aimed at solving a business problem.

Data Types and Persistence-Malcolm P. Atkinson 2012-12-06 There is an established interest in integrating databases and programming languages. This book on Data Types and Persistence evolved from the proceedings of a workshop held at the Appin in August 1985. The purpose of the Appin workshop was to focus on these two aspects: persistence and data types, and to bring together people from various disciplines who have thought about these problems. Particular topics of interest include the design of type systems appropriate for database work, the representation of persistent objects such as data types and modules, and the provision of orthogonal persistence and certain aspects of transactions and concurrency. The programme was broken into three sessions: morning, late afternoon and evening to allow the participants to take
advantage of two beautiful days in the Scottish Highlands. The financial assistance of the Science and Engineering Research Council, the National Science Foundation and International Computers Ltd. is gratefully acknowledged. We would also like to thank Isabel Graham, Anne Donnelly and Estelle Taylor for their help in organising the workshop. Finally our thanks to Pete Bailey, Ray Carick and Dave Munro for the immense task they undertook in typesetting the book. The convergence of programming languages and databases to a coherent and consistent whole requires ideas from, and adjustment in, both intellectual camps. The first group of chapters in this book present ideas and adjustments coming from the programming language research community. This community frequently discusses types and uses them as a framework for other discussions.

**Object-Oriented Information Engineering** - Stephen Montgomery 2012-12-02 Object-Oriented Information Engineering: Analysis, Design, and Implementation discusses design, both its object-oriented and traditional development and analysis, on which the book gives much focus. The book begins with an introduction to information engineering and its phases, object-oriented information engineering, and object orientation. The text then moves on to more specific topics, such as business information requirements; detailed object modeling; business functions and subject areas; and individual object behaviors and object interactions. The book also explains the integration and validation of analysis models; object structure designs; and system designs and its different applications. The text is
recommended for undergraduates and practitioners of computer and/or information engineers who want to learn more about object-oriented design, its relation with traditional design, and its analysis. The book is also for those who wish to contribute and conduct further studies in the field of object-oriented design.

**Object-oriented Systems Analysis**-Sally Shlaer 1988 This book explains how to model a problem domain by abstracting objects, attributes, and relationships from observations of the real world. It provides a wealth of examples, guidelines, and suggestions based on the authors' extensive experience in both real time and commercial software development. This book describes the first of three steps in the method of Object-Oriented Analysis. Subsequent steps are described in Object Lifecycles by the same authors.

**Advances in Object-oriented Data Modeling**-M. Papazoglou 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

**PHP Solutions**-David Powers 2011-05-30 This is the second edition of David Powers' highly-respected PHP Solutions: Dynamic Web Design Made Easy. This new edition has been updated by David to incorporate changes to PHP since the first edition and to offer the latest techniques—a classic guide modernized for 21st century PHP techniques, innovations, and best practices. You want to make your websites more dynamic by adding a feedback form, creating a private area where members can upload images that are automatically resized, or perhaps storing all your content in a database. The problem is, you're not a programmer and the thought of writing code sends a chill up your spine. Or
maybe you've dabbled a bit in PHP and MySQL, but you can't get past baby steps. If this describes you, then you've just found the right book. PHP and the MySQL database are deservedly the most popular combination for creating dynamic websites. They're free, easy to use, and provided by many web hosting companies in their standard packages. Unfortunately, most PHP books either expect you to be an expert already or force you to go through endless exercises of little practical value. In contrast, this book gives you real value right away through a series of practical examples that you can incorporate directly into your sites, optimizing performance and adding functionality such as file uploading, email feedback forms, image galleries, content management systems, and much more. Each solution is created with not only functionality in mind, but also visual design. But this book doesn't just provide a collection of ready-made scripts: each PHP Solution builds on what's gone before, teaching you the basics of PHP and database design quickly and painlessly. By the end of the book, you'll have the confidence to start writing your own scripts or—if you prefer to leave that task to others—to adapt existing scripts to your own requirements. Right from the start, you're shown how easy it is to protect your sites by adopting secure coding practices.

An Introduction to Object-oriented Programming
Michael L. Nelson 1990 Like many new ideas, object oriented programming (OOP) does not yet have a universally accepted definition. Even the terminology of OOP can vary greatly from one system or language to another. This paper
introduces OOP to the newcomer in a language-independent manner. The underlying theory of OOP is presented to give the reader the basics necessary to understand the nuances of the various OOP languages that are available. Several OOP languages are briefly considered, as are object-oriented database management systems, object-based programming, and object-oriented design. Various problem areas are explored in detail. This paper should also be of considerable help in making the transition from one OOP language to another.

Object-relational DBMSs-Michael Stonebraker 1999
Discover why object-relational technology is ideal for supporting a broad spectrum of data types and application areas, from financial services to multimedia data. In this completely revised and updated edition, database experts Michael Stonebraker and Paul Brown explore the object-relational paradigm and examine the most recent developments in the field. Specifically written for database application programmers, database analysts, and IT managers, this book includes detailed information on how to classify DBMS applications, where object-relational DBMSs fit in the database world, and what mechanisms are required to support such an engine. * Offers completely updated and expanded information" new and revised material discusses both the latest technology and the latest products. * Presents a simple matrix for classifying and evaluating DBMSs so that you can make informed judgments about object-relational systems. * Includes examples, tables, and tests to help you judge the quality and
optimization of systems now on the market.

**Oracle8 Design Using UML Object Modeling**-Paul Dorsey 1999 The ultimate guide to designing with Oracle8's Object-Relational Model. The authors show users how to implement the concepts in the real world--teaching how to fully exploit the Object-oriented capabilities of Oracle8. They cover the often neglected areas of database design system requirements, like changes to records, data entry errors, and basic transaction history--all key topics that every database designer must address.

**The Object Data Standard**-Roderic Geoffrey Galton Cattell 2000 ODMG is a widely accepted standard for object database modelling; every year more companies implement it. ODMG 3.0 integrates programming languages with databases and ensures the portability of applications across platforms and DBMS products

**Object-oriented Concepts, Databases and Applications**-Jurgen Annevelink 1989

**Object-oriented Database Systems**-Elisa Bertino 1993 Object-Oriented Database Systems offers a clear introduction to the concepts and features of object-oriented database, illustrated with several examples of current commercial systems. Professional database designers and
users who want a clear guide to the current state of the art will find this book a must.

**Object Databases**-Barry Eaglestone 1998 This text uses the ODMG model, making it applicable to users of many object database systems. The material is presented in an accessible way, avoiding mathematical notations, and includes many realistic and familiar illustrations and examples.

**Index Data Structures in Object-Oriented Databases**-Thomas A. Mueck 2012-12-06 Object-oriented database management systems (OODBMS) are used to implement and maintain large object databases on persistent storage. Regardless whether the underlying database model follows the object-oriented, the relational or the object-relational paradigm, a key feature of any DBMS product is content based access to data sets. On the one hand this feature provides user-friendly query interfaces based on predicates to describe the desired data. On the other hand it poses challenging questions regarding DBMS design and implementation as well as the application development process on top of the DBMS. The reason for the latter is that the actual query performance depends on a technically meaningful use of access support mechanisms. In particular, if chosen and applied properly, such a mechanism speeds up the execution of predicate based queries. In the object-oriented world, such queries may involve arbitrarily complex terms referring to inheritance hierarchies and
aggregation paths. These features are attractive at the application level, however, they increase the complexity of appropriate access support mechanisms which are known to be technically non-trivial in the relational world.

An Introduction to Object-oriented Databases and Database Systems-Michael L. Horowitz 1991 Abstract: "Recent developments in editing applications, especially in the areas of CAD/CAM and multimedia, have provoked interest in integrating the data abstraction capabilities of object-oriented languages with the persistence and concurrency control of database systems. Database systems assume the task of determining the file storage format for the application. In addition, such systems provide support for concurrency control, atomicity of multiple updates, recoverability, authorization, versioning, and search (i.e. associative access). Sophisticated editing applications, however, require better data modeling capabilities than those normally provided by existing database systems (i.e. those presenting a relational or network data model). Thus, an impedance mismatch exists between the way databases view application data and how the application wishes to manipulate that data. A database system that supports an object-oriented data model would eliminate this impedance mismatch and furnish the desired modeling capabilities: object identity, direct access, data abstraction extensibility, inheritance, polymorphism, genericity, encapsulation, embedded semantics, and data type extensibility.

Integrating object-oriented concepts and normal database concepts also presents the opportunity to explore new
features that would help application builders: object composition, property propagation, cyclic queries, indexing extensibility, relationship support, database self-containment, and schema evolution. This paper presents a summary of current database research into new data models based on object-oriented concepts. The concepts themselves are defined and then the different systems are described.

Object - Oriented Database Systems : Approaches and Architectures-Prabhu C.s.r.

Valuepack-Thomas Connolly 2005-08-01

Inside the Database Object Model.-Donald K. Burleson 1998-07-01 Inside the Database Object Model shows how objects are added to commercial database systems, outlining why object-oriented development is best suited for dynamic, interactive environments, and explores how object technology is being incorporated into database management systems. The book reflects the revolutionary change in database architecture, providing readers with plenty of usable code and other illustrative material.

A Guided Tour of Relational Databases and Beyond- Mark Levene 2012-09-18 Addressing important extensions of the relational database model, including deductive, temporal, and object-oriented databases, this book provides
an overview of database modeling with the Entity-Relationship (ER) model and the relational model. The book focuses on the primary achievements in relational database theory, including query languages, integrity constraints, database design, computable queries, and concurrency control. This reference will shed light on the ideas underlying relational database systems and the problems that confront database designers and researchers.

**Object-Oriented PHP**-Peter Lavin 2006 Presents an introduction to PHP and object-oriented programming, with information on such topics as classes, inheritance, RSS readers, and XML.

**The Object Database Standard**-R. G. G. Cattell 1997 A major revision of the standard for object database management systems (ODBMSs), this book represents an important industry consensus on component technology for database products and languages, enabling wide acceptance and adoption of object database technology. This revision adds coverage of Java bindings to the updated material on C++ and SmallTalk.

**Object Orientation**-Setrag Khoshafian 1995-12-12 Quickly acquire the knowledge and skills you need to use object technology in your next development project A practical, down-to-earth introduction to object-oriented terms, concepts, and techniques, Object Orientation, Second
Edition is for developers and programmers who are eager to start using object-oriented technology right away. Building step-by-step from the fundamentals to advanced design and development topics, this book supplies you with all the in-depth technical information and guidance you need to confidently incorporate object-oriented tools and techniques into your next project, no matter what your level of experience. Thanks to the authors' clear, straightforward explanations and professional insights, as well as the many real-world examples appearing throughout the book, you'll quickly acquire a solid working knowledge of * Abstract data typing, inheritance, and identity * Object-oriented analysis and design-including Booch, Rumbaugh, and other OOA and OOD methodologies * Object-oriented programming languages-including the object-oriented features of C++, Smalltalk, Ada, Eiffel, and other languages * Object-oriented database management systems-including OOODB, ORDB, client/server concepts, and examples from Object Design, Gem Stone, Versant, UniSQL, Objectivity, ODB-II, and other systems * Object-oriented GUI design-including explanations of Visual C++ and Foundation Classes, MacAPP, and NeXTStep * Object sharing and interchange with OLE 2 and OpenDoc * OMA, ODMG-93, and other object-oriented standardization efforts * And much more Featuring over 50% new and revised material, this Second Edition of Setrag Khoshafian and Razmik Abnous's bestseller is now more than ever the best practical introduction to object technology for programmers and developers.
Object Data Management - R. G. G. Cattell 1994 This title is now out of print. This revised introduction to object-oriented and extended relational database systems incorporates significant developments in the field since the first edition was published. As before, the book objectively examines the nature and benefits of these systems, compares them with conventional systems, and shows the range of applications they now make possible. With database technology and its uses developing so rapidly, it is not surprising that additional and updated information is required just two years after the book's initial and well-received publication. A key motivation for this revision is the need for database designers and users to understand important developments in object data management standards. When this book was first published, the lack of standards was a critical obstacle to widespread acceptance of the technology. In response to the advances made on the ODMG-93 standard (by a committee chaired by the author), as well as the SQL3 standard, a chapter has been added to the book that describes the new standards and explains their significance. One of the most significant features of the first edition was an appendix covering available products and prototypes. This appendix, expanded and updated here, offers an excellent single resource for people needing to know what systems are currently available. Major systems are now covered more extensively. The author has taken the opportunity to make improvements throughout the book. Recent work in a number of areas is described. New figures and examples have been created, and the notation in the data schema figures has been enhanced. The annotated bibliography has been expanded. Additions and
clarifications appear in every chapter. Since initial publication, a number of books has appeared with "object-oriented databases" in the title. Cattell's work, however, remains the most thorough and most balanced coverage of the new technology, and it is now the most current, as well. His book discusses a much wider range of database approaches, including extended relational systems and object-oriented systems. It also provides deeper insight into the implementation and architecture of these systems. Any database system user interested in the latest technologies, particularly users with large amounts of complex data to manage, as well as students, designers, and implementors of such systems, will find this book packed with useful information. 0201547481B04062001

**Object-oriented Databases**-Alan W. Brown 1991 Provides a simple, concise introduction to object-oriented database systems, with emphasis on their use as an enabling technology for supporting large scale software development.

**An Introduction to the Persist Object Model**-Juniper Software Corporation 1989

**Domain-driven Design**-Eric Evans 2004 Describes ways to incorporate domain modeling into software development.

**Database Systems of the 90s**-Albrecht Blaser 1990 "This Introduction To Object Oriented Database Management System Ppt"
volume contains 14 survey articles by reputed database researchers. They give an account of the state of the art, present research highlights and offer an outlook into the '90s regarding the most likely evolution of database technology-research, ad-tech, products and applications. The volume is structured into the following parts: - The evolution of database technology and its impact on enterprise information systems (keynote paper); - Demands on database systems in the '90s (office, engineering, science, multimedia, standardization); - User aspects (application programmers, ad hoc query users); - Database system and architecture concepts for novel applications (data models, object orientation, deductive DBMS, extensibility, data replication); - System and implementation aspects (performance and reliability, distributed and cooperative DBMS, hardware impact). The volume may serve as an orientation for all those who are interested in database systems and their impact on computer applications."--PUBLISHER'S WEBSITE.

**Java Data Objects**-David Jordan 2003-04-22 Introduces Java Data Objects and its capabilities, explains how to make classes persistent, how to configure JDO, how to make queries, how to perform transactions, and its use in Web applications and J2EE environments.
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