

# **Elmasri Navathe**

## **Fundamentals Of Database Systems 3rd Edition**

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**Rules in Database Systems -**  
Timos Sellis 1995-09-11

This book constitutes the  
refereed proceedings of the

Second International Workshop on Rules in Database Systems, RIDS '95, held in Athens, Greece, in September 1995. The book presents 22 revised full papers selected during a very careful reviewing process from a total of 47 submissions. In addition, there is a detailed invited introduction for a panel discussion on the Active Database Management Systems Manifesto. The papers are organized in sections on semantics for database systems, active behavior, rule base organization and modeling, rule analysis, deductive databases, implementation and benchmarking of active

database systems, and cooperative systems support.

*Principles of Distributed Database Systems* - M. Tamer Özsu 2011-02-24

This third edition of a classic textbook can be used to teach at the senior undergraduate and graduate levels. The material concentrates on fundamental theories as well as techniques and algorithms. The advent of the Internet and the World Wide Web, and, more recently, the emergence of cloud computing and streaming data applications, has forced a renewal of interest in distributed and parallel data management, while, at the same time, requiring a rethinking of some

of the traditional techniques. This book covers the breadth and depth of this re-emerging field. The coverage consists of two parts. The first part discusses the fundamental principles of distributed data management and includes distribution design, data integration, distributed query processing and optimization, distributed transaction management, and replication. The second part focuses on more advanced topics and includes discussion of parallel database systems, distributed object management, peer-to-peer data management, web data management, data stream systems, and cloud computing.

New in this Edition: • New chapters, covering database replication, database integration, multidatabase query processing, peer-to-peer data management, and web data management. • Coverage of emerging topics such as data streams and cloud computing • Extensive revisions and updates based on years of class testing and feedback Ancillary teaching materials are available.

*Fundamentals of Database Systems* - Ramez Elmasri 2004

This book combines clear explanations of theory and design, broad coverage of models and real systems, and excellent examples with up-to-date introductions to modern

database technologies. Now in its third edition, this book has been revised and updated to reflect the latest trends in technological and application development. - Introduces UML modeling and how it is used right alongside ER modeling. - Provides updated and expanded material on SQL including a new chapter, which discusses Web databases and SQL, including JDBC/ODBC. - Applies ideas from the book to a fully-developed case study that implements the data needed to design a bookstore. - Expanded coverage of important database topics like security, data warehousing, and data mining. - A new chapter

featuring the relationship to XML and Internet databases keeps students on the edge of database technology. - Gives examples of real database systems. - Provides coverage of the object-oriented and object/relational approach to data management. - Includes discussion of decision support applications of data warehousing and data mining, as well as emerging technologies of web databases, multimedia, and mobile databases. - Covers a **Fundamentals of Database Systems** - Ramez Elmasri 2008-09 **NoSQL Distilled** - Pramod J.

Sadalage 2013  
'NoSQL Distilled' is designed to provide you with enough background on how NoSQL databases work, so that you can choose the right data store without having to trawl the whole web to do it. It won't answer your questions definitively, but it should narrow down the range of options you have to consider.

**Date on Database** - Christopher Date 2007-03-01

C. J. Date is one of the founding fathers of the relational database field. Many of today's seasoned database professionals "grew up" on Date's writings. Those same professionals, along with other

serious database students and practitioners, form the core audience for Date's ongoing writing efforts. **Date on Database: Writings 2000-2006** is a compilation of Date's most significant articles and papers over the past seven years. It gives readers a one-stop place in which to find Date's latest thinking on relational technology. Many papers are not easily found outside this book.

*Database System Implementation* - Garcia-Molina 2000-09

**Database Design, Application Development, and Administration** - Michael V.

Mannino 2004  
Mannino's "Database Design, Application Development, and Administration" provides the information you need to learn relational databases. The book teaches students how to apply relational databases in solving basic and advanced database problems and cases. The fundamental database technologies of each processing environment are presented; as well as relating these technologies to the advances of e-commerce and enterprise computing. This book provides the foundation for the advanced study of individual database management systems, electronic commerce

applications, and enterprise computing.

Database Systems: The Complete Book - Hector Garcia-Molina 2008

**Introduction to SQL** - Rick F. van der Lans 1993-01

Fully updated to cover SQL2, this new edition is a complete introduction to SQL and includes a tutorial disk. The disk contains the database example described within the book and a brief version of Quadbase-SQL.

Readers will benefit from working with a "real" SQL product and by building their own database with addresses.

*Valuepack* - Thomas Connolly 2005-08-01

**Fundamentals of Database Systems: Pearson New International Edition - Ramez Elmasri** 2013-08-29

Clear explanations of theory and design, broad coverage of models and real systems, and an up-to-date introduction to modern database technologies result in a leading introduction to database systems. Intended for computer science majors, this text emphasizes math models, design issues, relational algebra, and relational calculus. A lab manual and problems give students opportunities to practice the fundamentals of design and implementation. Real-world examples serve as engaging,

practical illustrations of database concepts. The Sixth Edition maintains its coverage of the most popular database topics, including SQL, security, and data mining, and features increased emphasis on XML and semi-structured data.

Aspect-Oriented Database

Systems - Awais Rashid

2013-03-14

Recently, a set of new software development techniques – termed Aspect-Oriented Software Development (AOSD) – has become available that aims to support modularisation of systemic properties (also referred to as crosscutting-concerns) and their subsequent composition with other parts of

the system. Rashid focuses on the use of Aspect-Oriented Programming (AOP) techniques to modularise otherwise broadly scoped features in database systems like the transaction or the versioning model to improve their customisability, extensibility, and maintainability. His aim is to show how the use of AOP can transform the way we develop, use and maintain database systems. He also discusses how database systems can support AOP by providing means for storage and retrieval of aspects. *Aspect-Oriented Databases Systems* shows the possible synergy between AOSD and database systems and is of particular

interest for researchers, graduate students and software developers in database systems and applications.

*Theory and Practice of Relational Databases* - Stefan Stanczyk 2003-09-02

The study of relationship databases is a core component of virtually every undergraduate computer science degree course. This new edition of *Theory and Practice of Relationship Databases* retains all the features that made the previous edition such as success, and goes on to give even more comprehensive and informative coverage. Written in a tutorial style and containing a great many examples and

exercises as well as extensively using illustrative and explanatory graphics, the author has produced an undergraduate textbook of great depth and clarity that is very easy to follow. The subject of relational databases is brought to life by the writing style and the inclusion of an homogenous case study that reinforces the issues dealt with in each chapter. The primary objective of the book is to present a comprehensive explanation of the process of development of database application systems within the framework of a set processing paradigm. Since the majority of these applications are built as relationship

systems, a complete though reasonably concise account of that model is presented. Dr. Stanczyk has achieved this by concentrating on the issues that contribute significantly to the application development while de-emphasizing purely theoretical aspects of the subject. This has led to an imaginative and highly practical textbook that will be an excellent read for the undergraduate computer science student.

Fundamentals of Database Systems, Global Edition -

Ramez Elmasri 2016-08-19

For database systems courses in Computer Science This book introduces the fundamental

concepts necessary for designing, using, and implementing database systems and database applications. Our presentation stresses the fundamentals of database modeling and design, the languages and models provided by the database management systems, and database system implementation techniques. The book is meant to be used as a textbook for a one- or two-semester course in database systems at the junior, senior, or graduate level, and as a reference book. The goal is to provide an in-depth and up-to-date presentation of the most important aspects of database systems and applications, and

related technologies. It is assumed that readers are familiar with elementary programming and data-structuring concepts and that they have had some exposure to the basics of computer organization.

**Database Systems - S. K. Singh**  
2011

The second edition of this bestselling title is a perfect blend of theoretical knowledge and practical application. It progresses gradually from basic to advance concepts in database management systems, with numerous solved exercises to make learning easier and interesting. New to this edition are discussions on

more commercial database management systems.

**Database Systems - Ramez Elmasri 2011**

Clear explanations of theory and design, broad coverage of models and real systems, and an up-to-date introduction to modern database technologies result in a leading introduction to database systems. Intended for computer science majors, **Fundamentals of Database Systems, 6/e** emphasizes math models, design issues, relational algebra, and relational calculus. A lab manual and problems give students opportunities to practice the fundamentals of design and implementation. Real-world

examples serve as engaging, practical illustrations of database concepts. The Sixth Edition maintains its coverage of the most popular database topics, including SQL, security, and data mining, and features increased emphasis on XML and semi-structured data.

**Modern Database Management**

- Fred R. McFadden 1999

The fifth edition of **Modern Database Management** has been updated to reflect the most current database content available. It provides sound, clear, and current coverage of the concepts, skills, and issues needed to cope with an expanding organisational resource. While sufficient

technical detail is provided, the emphasis remains on management and implementation issues pertinent in a business information systems curriculum.

**Database Systems - Paolo Atzeni 1999**

Covers the important requirements of teaching databases with a modular and progressive perspective. This book can be used for a full course (or pair of courses), but its first half can be profitably used for a shorter course.

**A Guide to Oracle - Joline Morrison 1998**

This text provides comprehensive instruction that should enable students to

develop a database in Oracle, using the database and application development tools provided by the Oracle Academic Alliance Program. It also provides instructors and technical support personnel with instruction on administration of these tools.

*Multidatabase Systems - A. R. Hurson 1994*

Introduction to multidatabase systems; The global information-sharing environment; Multidatabases issues; Multidatabase design choices; Current research in multidatabase projects; the future of multidatabase systems; About the authors.

**Database Systems - Ramez**

Elmasri 2002

Now each copy of this book comes with a free dynamic electronic version of the text on an accompanying CD-ROM, allowing readers to highlight text, take notes on a page, and more Fundamentals of Database Systems combines clear explanations of theory and design, broad coverage of models and real systems, and excellent examples with up-to-date introductions to modern database technologies. Now in its third edition, this book has been revised and updated to reflect the latest trends in technological and application development. This edition focuses on the relational model

and includes recent object-oriented developments such as SQL3 and ODMG. Elmasri and Navathe provide coverage of the popular DBMS products, in particular the relational systems Oracle and Microsoft Access. They also address advanced modeling and system enhancements in the areas of active databases, temporal and spatial databases, and multimedia data models. The new edition also surveys the latest application areas of data warehousing, data mining, digital libraries, GIS, and genome databases.

Oracle 12c: SQL - Joan Casteel  
2015-09-08

Introduce the latest version of

the fundamental SQL language used in all relational databases today with Casteel's ORACLE 12C: SQL, 3E. Much more than a study guide, this edition helps those who have only a basic knowledge of databases master the latest SQL and Oracle concepts and techniques. Learners gain a strong understanding of how to use Oracle 12c SQL most effectively as they prepare for the first exam in the Oracle Database Administrator or Oracle Developer Certification Exam paths. This edition initially focuses on creating database objects, including tables, constraints, indexes, sequences, and more. The

author then explores data query techniques, such as row filtering, joins, single-row functions, aggregate functions, subqueries, and views, as well as advanced query topics. ORACLE 12C: SQL, 3E introduces the latest features and enhancements in 12c, from enhanced data types and invisible columns to new CROSS and OUTER APPLY methods for joins. To help readers transition to further studies, appendixes introduce SQL tuning, compare Oracle's SQL syntax with other databases, and overview Oracle connection interface tools: SQL Developer and SQL Plus. Readers can trust ORACLE

12C: SQL, 3E to provide the knowledge for Oracle certification testing and the solid foundation for pursuing a career as a successful database administrator or developer.

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**Database and Data**

**Communication Network**

**Systems, Three-Volume Set -**

Cornelius T. Leondes

2002-07-02

Database and Data

Communication Network

Systems examines the utilization of the Internet and

Local Area/Wide Area Networks

in all areas of human endeavor.

This three-volume set covers, among other topics, database systems, data compression, database architecture, data acquisition, asynchronous

transfer mode (ATM) and the practical application of these

technologies. The international

collection of contributors was

culled from exhaustive research

of over 100,000 related archival

and technical journals. This

reference will be indispensable

to engineering and computer

science libraries, research

libraries, and

telecommunications, networking,

and computer companies. It

covers a diverse array of topics,

including: \* Techniques in

emerging database system architectures \* Techniques and applications in data mining \* Object-oriented database systems \* Data acquisition on the WWW during heavy client/server traffic periods \* Information exploration on the WWW \* Education and training in multimedia database systems \* Data structure techniques in rapid prototyping and manufacturing \* Wireless ATM in data networks for mobile systems \* Applications in corporate finance \* Scientific data visualization \* Data compression and information retrieval \* Techniques in medical systems, intensive care units

An Introduction to Database Systems - C. J. Date 2000

For over 25 years, C. J. Date's An Introduction to Database Systems has been the authoritative resource for readers interested in gaining insight into and understanding of the principles of database systems. This exciting revision continues to provide a solid grounding in the foundations of database technology and to provide some ideas as to how the field is likely to develop in the future. The material is organized into six major parts. Part I provides a broad introduction to the concepts of database systems in general and relational systems in

particular. Part II consists of a careful description of the relational model, which is the theoretical foundation for the database field as a whole. Part III discusses the general theory of database design. Part IV is concerned with transaction management. Part V shows how relational concepts are relevant to a variety of further aspects of database technology-security, distributed databases, temporal data, decision support, and so on. Finally, Part VI describes the impact of object technology on database systems. This Seventh Edition of An Introduction to Database Systems features widely

rewritten material to improve and amplify treatment of *Database Systems for Advanced Applications* - Lizhu Zhou 2005-04-04

This book constitutes the refereed proceedings of the 10th International Conference on Database Systems for Advanced Applications, DASFAA 2005, held in Beijing, China in April 2005. The 67 revised full papers and 15 revised short papers presented were carefully reviewed and selected from 302 submissions. The papers are organized in topical sections on bioinformatics, water marking and encryption, XML query processing, XML coding and

metadata management, data mining, data generation and understanding, music retrieval, query processing in subscription systems, extending XML, Web services, high-dimensional indexing, sensor and stream data processing, database performance, clustering and classification, data warehousing, data mining and Web data processing, moving object databases, temporal databases, semantics, XML update and query patterns, join processing and view management, spatial databases, enhancing database services, recovery and correctness, and XML databases and indexing.

Innovations and Advanced

Techniques in Systems, Computing Sciences and Software Engineering - Khaled Elleithy 2008-08-17

Innovations and Advanced Techniques in Systems, Computing Sciences and Software Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Innovations and Advanced Techniques in Systems, Computing Sciences and Software Engineering includes selected papers form

the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2007) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2007).

### **Database Management Systems**

- P.S. Gill 2010-09-30

The book is intended to provide an insight into the DBMS concepts. An effort has been made to familiarize the readers with the concepts of database normalization, concurrency control, deadlock handling and recovery etc., which are extremely vital for a clear

understanding of DBMS. To familiarize the readers with the equivalence amongst Relational Algebra, Tuple Relational Calculus, and SQL, a large number of equivalent queries have been provided. The concepts of normalization have been elaborated very systematically by fully covering the underlying concepts of functional dependencies, multi-valued dependencies, join dependencies, loss-less-join decomposition, dependency-preserving decomposition etc. It is hoped that with the help of the information provided in the text, a reader will be able to design a flawless database. Also, the concepts of

serializability, concurrency control, deadlock handling and log-based recovery have been covered in full detail. An overview has also been provided of the issues related to distributed-databases.

**Fundamentals of Database Systems** - Ramez Elmasri

2002-12-01

Database Systems - Elvis C. Foster 2022-09-26

This book provides a concise but comprehensive guide to the disciplines of database design, construction, implementation, and management. Based on the authors' professional experience in the software engineering and IT industries

before making a career switch to academia, the text stresses sound database design as a necessary precursor to successful development and administration of database systems. The discipline of database systems design and management is discussed within the context of the bigger picture of software engineering. Students are led to understand from the outset of the text that a database is a critical component of a software infrastructure, and that proper database design and management is integral to the success of a software system. Additionally, students are led to appreciate the huge value of a properly designed

database to the success of a business enterprise. The text was written for three target audiences. It is suited for undergraduate students of computer science and related disciplines who are pursuing a course in database systems, graduate students who are pursuing an introductory course to database, and practicing software engineers and information technology (IT) professionals who need a quick reference on database design.

Database Systems: A Pragmatic Approach, 3rd Edition discusses concepts, principles, design, implementation, and management issues related to

database systems. Each chapter is organized into brief, reader-friendly, conversational sections with itemization of salient points to be remembered. This pragmatic approach includes adequate treatment of database theory and practice based on strategies that have been tested, proven, and refined over several years. Features of the third edition include: Short paragraphs that express the salient aspects of each subject  
Bullet points itemizing important points for easy memorization  
Fully revised and updated diagrams and figures to illustrate concepts to enhance the student's understanding

Real-world examples Original methodologies applicable to database design Step-by-step, student-friendly guidelines for solving generic database systems problems Opening chapter overviews and concluding chapter summaries Discussion of DBMS alternatives such as the Entity-Attributes-Value model, NoSQL databases, database-supporting frameworks, and other burgeoning database technologies A chapter with sample assignment questions and case studies This textbook may be used as a one-semester or two-semester course in database systems, augmented by a DBMS

(preferably Oracle). After its usage, students will come away with a firm grasp of the design, development, implementation, and management of a database system.

**Expert MySQL** - Charles Bell  
2007-04-01

MySQL remains one of the hottest open source database technologies. As the database has evolved into a product competitive with proprietary counterparts like Oracle and IBM DB2, MySQL has found favor with large scale corporate users who require high-powered features and performance. Expert MySQL is the first book to delve deep into the MySQL architecture, showing users how

to make the most of the database through creation of custom storage handlers, optimization of MySQL's query execution, and use of the embedded server product. This book will interest users deploying MySQL in high-traffic environments and in situations requiring minimal resource allocation.

**Fundamental of Database Management System - Dr.**

Mukesh Negi 2019-09-18

Designed to provide an insight into the database concepts

**DESCRIPTION** Book teaches

the essentials of DBMS to

anyone who wants to become

an effective and independent

DBMS Master. It covers all the

DBMS fundamentals without

forgetting few vital advanced

topics such as from installation,

configuration and monitoring, up

to the backup and migration of

database covering few

database client tools. **KEY**

**FEATURES** Book contains real-

time executed commands along

with screenshot Parallel

execution and explanation of

Oracle and MySQL Database

commands A Single

comprehensive guide for

Students, Teachers and

Professionals Practical oriented

book **WHAT WILL YOU LEARN**

Relational Database,Keys

Normalization of database SQL,

SQL Queries, SQL joins

Aggregate Functions,Oracle and

Mysql tools WHO THIS BOOK  
IS FOR Students of Polytechnic  
Diploma Classes- Computer  
Science/ Information  
Technology Graduate Students-  
Computer Science/ CSE / IT/  
Computer Applications Master  
Class Students—Msc (CS/IT)/  
MCA/ M.Phil, M.Tech, M.S.  
Industry Professionals-  
Preparing for Certifications  
Table of Contents 1.  
Fundamentals of data and  
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functions, subqueries and users  
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Database installation 11. Oracle  
and MYSQL tools 12. Exercise  
**Readings in Database Systems -**  
Joseph M. Hellerstein 2005  
The latest edition of a popular  
text and reference on database  
research, with substantial new  
material and revision; covers  
classical literature and recent  
hot topics. Lessons from  
database research have been  
applied in academic fields  
ranging from bioinformatics to  
next-generation Internet  
architecture and in industrial  
uses including Web-based e-  
commerce and search engines.  
The core ideas in the field have  
become increasingly influential.

This text provides both students and professionals with a grounding in database research and a technical context for understanding recent innovations in the field. The readings included treat the most important issues in the database area--the basic material for any DBMS professional. This fourth edition has been substantially updated and revised, with 21 of the 48 papers new to the edition, four of them published for the first time. Many of the sections have been newly organized, and each section includes a new or substantially revised introduction that discusses the context, motivation, and

controversies in a particular area, placing it in the broader perspective of database research. Two introductory articles, never before published, provide an organized, current introduction to basic knowledge of the field; one discusses the history of data models and query languages and the other offers an architectural overview of a database system. The remaining articles range from the classical literature on database research to treatments of current hot topics, including a paper on search engine architecture and a paper on application servers, both written expressly for this edition. The result is a collection of

papers that are seminal and also accessible to a reader who has a basic familiarity with database systems.

Database System Concepts -

Abraham Silberschatz 2011

Presents the fundamental concepts of database management. This text is suitable for a first course in databases at the junior/senior undergraduate level or the first year graduate level.

ISE Database System Concepts

- Abraham Silberschatz

2019-02-28

Database System Concepts by

Silberschatz, Korth and

Sudarshan is now in its 7th

edition and is one of the

cornerstone texts of database

education. It presents the fundamental concepts of database management in an intuitive manner geared toward allowing students to begin working with databases as quickly as possible. The text is designed for a first course in databases at the junior/senior undergraduate level or the first year graduate level. It also contains additional material that can be used as supplements or as introductory material for an advanced course. Because the authors present concepts as intuitive descriptions, a familiarity with basic data structures, computer organization, and a high-level programming language are the

only prerequisites. Important theoretical results are covered, but formal proofs are omitted. In place of proofs, figures and examples are used to suggest why a result is true.

Data Warehousing and Analytics - David Taniar  
2022-02-04

This textbook covers all central activities of data warehousing and analytics, including transformation, preparation, aggregation, integration, and analysis. It discusses the full spectrum of the journey of data from operational/transactional databases, to data warehouses and data analytics; as well as the role that data warehousing plays in the data processing

lifecycle. It also explains in detail how data warehouses may be used by data engines, such as BI tools and analytics algorithms to produce reports, dashboards, patterns, and other useful information and knowledge. The book is divided into six parts, ranging from the basics of data warehouse design (Part I - Star Schema, Part II - Snowflake and Bridge Tables, Part III - Advanced Dimensions, and Part IV - Multi-Fact and Multi-Input), to more advanced data warehousing concepts (Part V - Data Warehousing and Evolution) and data analytics (Part VI - OLAP, BI, and Analytics). This textbook approaches data

warehousing from the case study angle. Each chapter presents one or more case studies to thoroughly explain the concepts and has different levels of difficulty, hence learning is incremental. In addition, every chapter has also a section on further readings which give pointers and references to research papers related to the chapter. All these features make the book ideally suited for either introductory courses on data warehousing and data analytics, or even for self-studies by professionals. The book is accompanied by a web page that includes all the used datasets and codes as well as slides and solutions to

exercises.

**Operating Systems - Ramez Elmasri 2010**

Elmasri, Levine, and Carrick's "spiral approach" to teaching operating systems develops student understanding of various OS components early on and helps students approach the more difficult aspects of operating systems with confidence. While operating systems have changed dramatically over the years, most OS books use a linear approach that covers each individual OS component in depth, which is difficult for students to follow and requires instructors to constantly put materials in context. Elmasri,

Levine, and Carrick do things differently by following an integrative or "spiral" approach to explaining operating systems. The spiral approach alleviates the need for an instructor to "jump ahead" when explaining processes by helping students "completely" understand a simple, working, functional system as a whole in the very beginning. This is more effective pedagogically, and it inspires students to continue exploring more advanced concepts with confidence.

**A First Course in Database Systems** - Jeffrey D. Ullman  
2013-08-29

For Database Systems and Database Design and

Application courses offered at the junior, senior, and graduate levels in Computer Science departments. Written by well-known computer scientists, this accessible and succinct introduction to database systems focuses on database design and use. The authors provide in-depth coverage of databases from the point of view of the database designer, user, and application programmer, leaving implementation for later courses. It is the first database systems text to cover such topics as UML, algorithms for manipulating dependencies in relations, extended relational algebra, PHP, 3-tier

architectures, data cubes, XML, XPATH, XQuery, XSLT. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Object Data Management - R. G. G. Cattell 1994

This revised introduction to object-oriented and extended relational database systems incorporates significant developments in the field since its first edition. An expanded section describes currently available products. A new chapter covers the recently completed ODMG-93 standard (whose committee was chaired by the author) and progress on the SQL3 standard.

Database Management Systems - Raghu

Ramakrishnan 2000

Database Management

Systems provides

comprehensive and up-to-date

coverage of the fundamentals of database systems. Coherent explanations and practical examples have made this one of the leading texts in the field. The third edition continues in this tradition, enhancing it with more practical material. The new edition has been reorganized to allow more flexibility in the way the course is taught. Now, instructors can easily choose whether they would like to teach a course which emphasizes database

application development or a course that emphasizes database systems issues. New overview chapters at the beginning of parts make it possible to skip other chapters in the part if you don't want the detail. More applications and examples have been added throughout the book, including SQL and Oracle examples. The applied flavor is further enhanced by the two new database applications chapters.