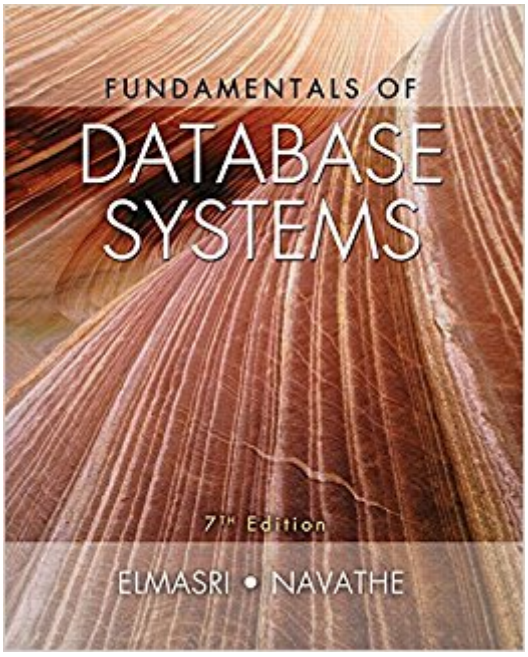
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Fundamentals Of Database Systems (7th Edition)



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Synopsis

For database systems courses in Computer Science Ã Â 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.

Book Information

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Customer Reviews

Ramez Elmasri is a professor and the associate chairperson of the Department of Computer Science and Engineering at the University of Texas at Arlington. He has over 140 refereed research publications, and has supervised 16 PhD students and over 100 MS students. His research has covered many areas of database manage- ment and big data, including conceptual modeling and data integration, query languages and indexing techniques, temporal and spatio-temporal databases, bioinformatics databases, data collection from sensor networks, and mining/analysis of spatial and spatio-temporal data. He has worked as a consultant to various companies, including

Digital, Honeywell, Hewlett Packard, and Action Technologies, as well as consulting with law firms on patents. He was the Program Chair of the 1993 International Conference on Conceptual Modeling (ER conference) and program vice-chair of the 1994 IEEE International Conference on Data Engineering. He has served on the ER conference steering committee and has been on the program committees of many conferences. He has given several tutorials at the VLDB, ICDE, and ER conferences. He also co-authored the book Ã¢â ¬Å“Operating Systems: A Spiral ApproachÃ¢â ¬Â• (McGraw-Hill, 2009) with Gil Carrick and David Levine. Elmasri is a recipient of the UTA College of Engineering Outstanding Teaching Award in 1999. He holds a BS degree in Engineering from Alexandria University, and MS and PhD degrees in Computer Science from Stanford University.
Ã Â Shamkant B. Navathe is a professor and the founder of the database research group at the College of Computing, Georgia Institute of Technology, Atlanta. He has worked with IBM and Siemens in their research divisions and has been a consultant to various companies including Digital, Computer Corporation of America, Hewlett Packard, Equifax, and Persistent Systems. He was the General Co-chairman of the 1996 International VLDB (Very Large DataBase) conference in Bombay, India. He was also program co-chair of ACM SIGMOD 1985 International Conference and General Co-chair of the IFIP WG 2.6 Data Semantics Workshop in 1995. He has served on the VLDB foundation and has been on the steering committees of several conferences. He has been an associate editor of a number of journals including ACM Computing Surveys, and IEEE Transactions on Knowledge and Data Engineering. He also co-authored the book Ã¢â ¬Å“Conceptual Design: An Entity Relationship ApproachÃ¢â ¬Â• (Addison Wesley, 1992) with Carlo Batini and Stefano Ceri. Navathe is a fellow of the Association for Computing Machinery (ACM) and recipient of the IEEE Computer Science, Engineering and Education Impact award in 2015. Navathe holds a Ph.D. from the University of Michigan and has over 150 refereed publications in journals and conferences.

I needed this for my class, and it was fine, but not great. The level of detail was pretty good and there were some well-developed examples, but as some other reviewers noted, the nature of the components building off one another meant that it might be hard to find the referenced schema in an

earlier (or later) section of the book while you were looking at one section. And it didn't necessary give you the page numbers so you could flip back and forth easily. If they just added the page numbers that would definitely bump my rating up.

Relational database theory, for a college level, Computer Science curriculum.I chose this book because it is a required text for an undergraduate database class. It presents relational database design from a theoretical basis. It provides an explanation, in depth, of the mathematical foundations of database theory. It is not a get started quickly, hands on guide to using SQL.This is an important text, and required reading for anyone looking for a deep understanding of relational database theory. It is not a hit the ground running, create a few queries quickly, how-to presentation. It is a serious work, and provides a serious understanding.

This was a highly theoretical text on databases. It doesn't provide enough of a solid understanding of the SQL syntax. If you want practical knowledge about databases, this is definitely not the book for you.I initially tried to read this book for my databases class, and it does a good job of showing you how to envision a database in an academia-approved graphical format, but unfortunately, it doesn't do much for a person practically. Not enough coverage of SQL, too much on the theoretical and on trees and whatnot.And the only reason why I gave it two stars instead of one was because theoretical-part aside, it did an okay job of explaining some of the theoretical concepts.

This textbook was required for my COP 4722, Survey of Database Systems class and I have to say this book provided no help to me in passing the course. The author wrote this text in a manner that makes the subject extremely dull, tedious and boring. Often, I would have to re-read a sentence 3 times just to get the jist of what he's trying to explain. The concepts are poorly explained and the examples are lousy. To be honest, after a month or so into the course, I gave up on the text completely and relied entirely on my notes, online/internet help and the professor's powerpoint/lectures. In my whole 4 years of attending an university, this was the only class that I earned a C in(which is the lowest grade I've ever gotten). I can't blame the textbook entirely because the professor was not exactly the best at teaching. Lets just say that after the drop date, less than 25% of the students remained.

Was in the condition as noted. Needed this book for a course.

Worse than google things yourself. Diagram is confusing. Content is poor organized. Unless you are required to buy this book for course like me, dont buy it, not worth even for 20$. Used-Good book has bad condition, I have to glue it together.

The book is very informative with detailed information on the history of databases and the theory of their design. However, it is written and structured very poorly. The book reads almost as if the author had a page quota that he struggled to meet, entire pages could be condensed into a few sentences without missing any information. The author uses the first few pages of each chapter to discuss what he is going to discuss in the following pages. If you are interested in the "fundamentals" of databases look elsewhere, but if you do not mind painfully drawn out examples and writing and want to learn the theory behind the "fundamentals" of databases then this book may be for you. If this book is required by your university you have my sympathy.

This is an excellent and thorough analysis of database processes involving transactions, concurrency control, security and covers relational tables, object-relational databases as well as object oriented technology. There is a thorough overview of UML as well as ER design tools. It is a tough read and covers a lot of material and is very theoretical but practical. Relational algebra and calculus are covered thoroughly. This is recommended for an advanced database course as it’s coverage of SQL is coarse and cursory. Instead this book is intended more for a behind the scenes analysis of database technology. An excellent database course as a prerequisite for using this book would use Mannino’s Database Design, Application, Development and Administration. Mannino’s book has an excellent coverage of SQL and its applications.

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