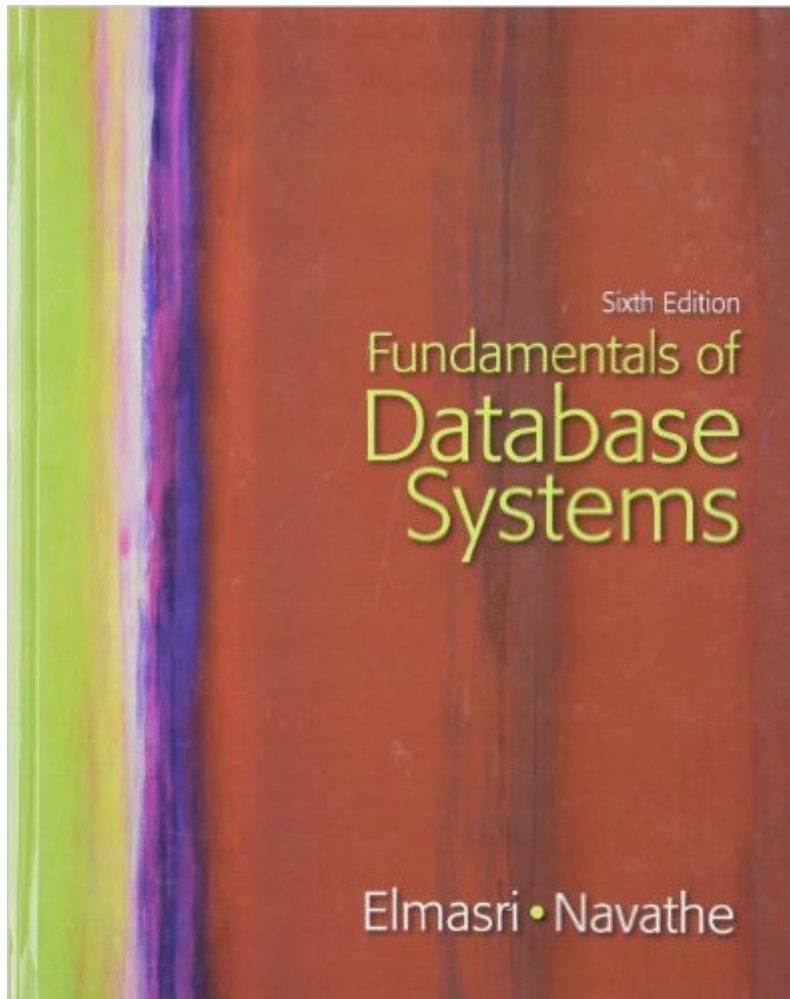


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# Fundamentals Of Database Systems (6th Edition)



## Synopsis

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.

## Book Information

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## Customer Reviews

I used *FUNDAMENTALS OF DATABASE SYSTEMS* (Third Edition) in a graduate class I took on databases, and I've kept referring to the book since then. As a student, I'll admit that it was tough to get through this book at times. It's dense and almost impenetrable, but it packs a huge amount of information and is amazingly comprehensive. It puts theory well ahead of practical matters, which gives the novice a good foundation from which to really get a firm handle on how all these pieces fit together. The assumption is that the student knows nothing, even B-trees are devoted several pages of explanation. The student who does know nothing will doubtless find this wealth of data to be overwhelming at first (as I did). But stick at it. This textbook is not for people looking at how to

simply plug things into Microsoft Access. It's for programmers seriously looking to gain a strong background in what the fundamental elements of database components and systems are. The text starts off simply, merely explaining in general terms what databases are and who will use them. Then we quickly move into modeling how relational databases work. Data Modeling and Entity-Relationship Models are described in-depth, and the book comes back to ER modeling and mapping repeatedly. Object Models are covered, as well as the best ways of sorting records and the best way to index tables. The authors offer a wealth of information concerning the SQL language -- so much so, that there's much that I simply haven't used since reading about it, although I'm sure that more advanced database programmers in the audience will find it very enlightening. It continues on with Object-Oriented Database technologies, functional dependencies, and normal forms (first, second, third and Boyce-Codd normal form).

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