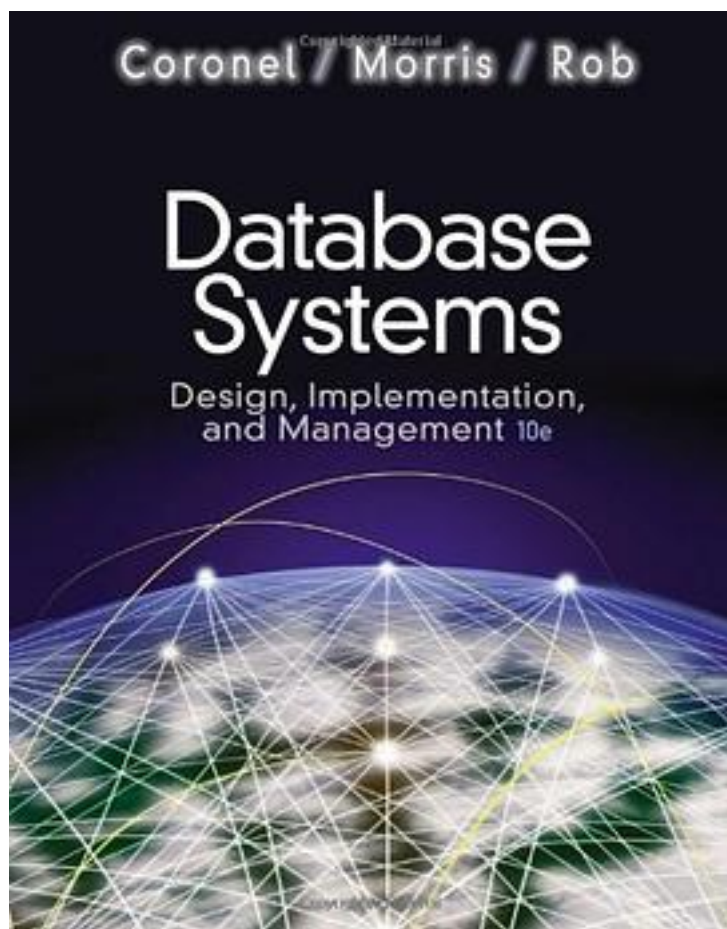


Database Systems



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著者:Thomas M. Connolly

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This best-selling text introduces the theory behind databases in a concise yet comprehensive manner, providing database design methodology that can be used by both technical and non-technical readers. The methodology for relational Database Management Systems is presented in simple, step-by-step instructions in conjunction

with a realistic worked example using three explicit phases—conceptual, logical, and physical database design.

Background: Introduction to Databases; Database Environment; Database Architectures and the Web. The Relational Model and Languages: The Relational model; Relational Algebra and Relational Calculus; SQL: Data Manipulation; SQL: Data Definition; Query-By-Example (QBE). Database Analysis and Design: Database System Lifecycle; Database Analysis and the DreamHome Case Study; Entity-Relationship Modeling; Enhanced Entity-Relationship Modeling; Normalization; Advanced Normalization. Methodology: Methodology—Conceptual Database Design; Methodology—Logical Database Design for Relational Model; Methodology—Physical Database Design for Relational Databases; Methodology—Monitoring and Tuning the Operational System. Selected Database Issues: Security and Administration; Professional, Legal, and Ethical Issues; Transaction Management; Query Processing. Distributed DBMSs and Replication: Distributed DBMSs—Concepts and Design; Distributed DBMSs—Advanced Concepts; Replication and Mobile Databases. Object DBMSs: Object-Oriented DBMSs—Concepts and Design; Object-Oriented DBMSs—Standards and Languages; Object-Relational DBMSs. Web and DBMSs: Web Technology and DBMSs; Semistructured Data and XML. Business Intelligence Technologies: Data Warehousing Concepts; Data Warehousing Design; OLAP; Data Mining. Appendices: Users' Requirements Specification for DreamHome Case Study; Other Case Studies; Alternative Data Modeling Notations; Summary of the Database Design Methodology for Relational Databases; Introduction to Pyrrho—A Lightweight RDBMS. Web Appendices: File Organization and Storage Structures; When Is a DBMS Relational?; Commercial DBMSs: Access and Oracle; Programmatic SQL; Estimating Disk Space Requirements; Introduction to Object-Oriented; Example Web Scripts.

This book is ideal for readers interested in database management or database design.

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