- (All chapters begin with an Introduction end with a Summary, Exercises, and Reference and Bibliography)
- I Preliminaries
- What is a database?
- Relational systems and others
- 2 Database System Architecture
- The three levels of the architecture
- The external level
- The conceptual level
- Mappings
- The database administrator
- Data communications
- Client/server architecture
- 1 An Overview of Database Management
- The database management system
- What is a database system?
- Why database?
- Data independence
- The internal level
- Utilities
- 3 An Introduction to Relational Databases
- Relations and relvars
- What relations mean
- The catalog
- Base relvars and views
- Transactions
- The suppliers-and-parts database
- Transactions
- Embedded SQL
- Distributed processing
- Optimization
- The catalog
- An informal look at the relational model
- Overview
- Views
- 4 An Introduction to SQL
- Dynamic SQL and SQL/CLI
- SQL is not perfect
- II The Relational Model
- 5 Types
- Values v Variables
- Types v Representations
- Type Definition
- Operators