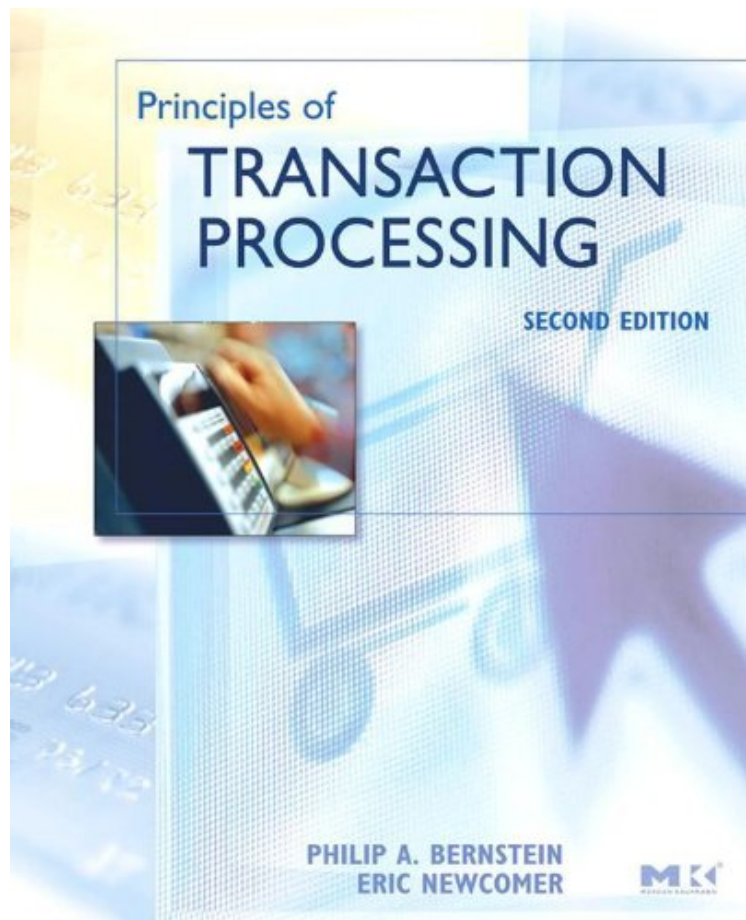


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Principles of Transaction Processing (The Morgan Kaufmann Series in Data Management Systems)

Von Philip A. Bernstein, Eric Newcomer
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Von Philip A. Bernstein, Eric Newcomer : Principles of Transaction Processing (The Morgan Kaufmann Series in Data Management Systems) before purchasing it in order to gage whether or not it would be worth my time, and all praised Principles of Transaction Processing (The Morgan Kaufmann Series in Data Management Systems):

KundenrezensionenHilfreichste Kundenrezensionen1 von 1 Kunden fanden die folgende Rezension hilfreich. An introduction at best. You'll need another book as well.Von Curt PearlmanHaving read lots of technical books, I found this one to be the least impressive. I found sloppy and inconsistent use of terms and language which often caused ambiguity in an explanation. The authors wrote as if they were summarizing ideas to close friends who already knew what they were talking about instead of spelling it out for the rest of us. I would look elsewhere for a treatment of this subject.0 von 0 Kunden fanden die folgende Rezension hilfreich. One of the best computer books ever.Von Vladimir VolkovExcellent print and illustrations. No ambiguous or misleading explanations. It will broaden your horizons and

greatly improve your understanding of Computer Science. The book stands to its title, yes, the principles, many topics are discussed in abstract, patternized way. No 'SELECT * FROM CUSTOMER' stuff. Get it. It may be off-topic but it sits right with "C++ Programming Language", "Essential COM", "Programming Perl", "UML Distilled" and "Design Patterns". Cheers.0 von 0 Kunden fanden die folgende Rezension hilfreich. Useful introduction for software testers Von Cem Kaner I'm reviewing books with the question, "What will be worthwhile for people who are testing web-based applications?" This is a solid and useful introduction to the person who is trying to figure out how a system is supposed to work together, where it might be broken, and therefore, what test cases might be interesting. This is not to say that the book is written with a testing focus. It's just a clear, readable, approachable introduction to transaction processing.

Kurzbeschreibung Principles of Transaction Processing is a comprehensive guide to developing applications, designing systems, and evaluating engineering products. The book provides detailed discussions of the internal workings of transaction processing systems, and it discusses how these systems work and how best to utilize them. It covers the architecture of Web Application Servers and transactional communication paradigms. The book is divided into 11 chapters, which cover the following: Overview of transaction processing application and system structure Software abstractions found in transaction processing systems Architecture of multitier applications and the functions of transactional middleware and database servers Queued transaction processing and its internals, with IBM's Websphere MQ and Oracle's Stream AQ as examples Business process management and its mechanisms Description of the two-phase locking function, B-tree locking and multigranularity locking used in SQL database systems and nested transaction locking System recovery and its failures Two-phase commit protocol Comparison between the tradeoffs of replicating servers versus replication resources Transactional middleware products and standards Future trends, such as cloud computing platforms, composing scalable systems using distributed computing components, the use of flash storage to replace disks and data streams from sensor devices as a source of transaction requests. The text meets the needs of systems professionals, such as IT application programmers who construct TP applications, application analysts, and product developers. The book will also be invaluable to students and novices in application programming. Complete revision of the classic "non mathematical" transaction processing reference for systems professionals. Updated to focus on the needs of transaction processing via the Internet-- the main focus of business data processing investments, via web application servers, SOA, and important new TP standards. Retains the practical, non-mathematical, but thorough conceptual basis of the first edition..de What do reserving a seat on an airplane, buying a movie ticket over the Internet, and launching a missile all have in common? Principles of Transaction Processing for the Systems Professional explains that these and many other computerized tasks require the use of transaction processing (TP). Authors Philip Bernstein and Eric Newcomer demonstrate that this previously specialized area of systems design is becoming more important with the growth of Internet commerce. This theoretically astute and practical-minded book begins with a description of the principles of successful transaction management. (The so-called "ACID" test requires that transactions be atomistic, consistent, isolated, and durable.) The authors illustrate the principles with real-world examples of transactions in everyday life, such as ATM systems and the stock market. Bernstein and Newcomer then outline how transaction processing monitors work and discuss some of the details, such as interface definition languages, which let disparate computers communicate, and remote procedure calls. The text also explores some real-world TP monitor products, from IBM's CICS to Tuxedo to Microsoft Transaction Server. While transaction processing has been a part of mainframe system design for decades, it has recently become relevant for commerce and everyday database access on the Web. The authors look at today's Web servers--Microsoft Internet Information Server and Netscape's FastTrack Server--and show how they manage transactions. Additional chapters move back into the theoretical, with descriptions of database transactions and strategies for replicating data. The text finishes up with some predictions on where this vital and established technology is headed. This book is a must for any developer who is designing a Web site that connects users to data in a distributed environment. It's also a definitive guide to an intriguing area of computing..com What do reserving a seat on an airplane, buying a movie ticket over the Internet, and launching a missile all have in common? 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