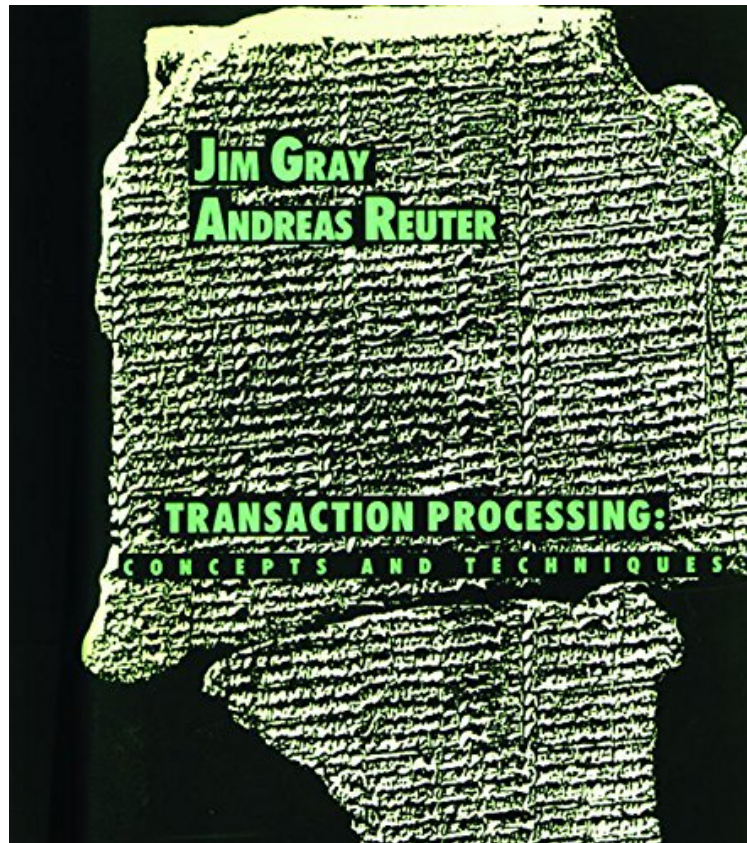


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Transaction Processing: Concepts and Techniques (The Morgan Kaufmann Series in Data Management Systems)

Von Jim Gray, Andreas Reuter
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Von Jim Gray, Andreas Reuter : Transaction Processing: Concepts and Techniques (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 Transaction Processing: Concepts and Techniques (The Morgan Kaufmann Series in Data Management Systems):

KundenrezensionenHilfreichste Kundenrezensionen3 von 3 Kunden fanden die folgende Rezension hilfreich. First and foremost, an implemator's bookVon Ein KundeI know I wouldn't have fully assimilated even half of this book in school: it certainly provides overview material approachable by those of moderate experience, but it will be most appreciated by those who have actually implemented (or are about to implement) much of what it discusses.Working on a hot new RAID box? Parts of this book will help. How about a file/record/object system? Yup. In either case, more complete references exist (and you'll need them), but the point is that this book really does cover data management from the disk on up in a useful degree of detail. On the other hand, if you're implementing a transaction manager, this book is both necessary and likely sufficient. Read it first to get started in the right directions, and revisit specific areas

as you code - a casual comment is easy to forget if you read it before you fully appreciate its context. The authors acknowledge that there are neat tricks not covered (because they would obscure the core material) that you'd likely want to incorporate once you're sure you really understand their impact, but all the framework, and much of the detail, is included. Bottom line: If your interest in data management is truly intense, you need this book - it should remain current for quite some time. 2 von 2 Kunden fanden die folgende Rezension hilfreich. a must not only for the database implementation study Von Ulrich Graser If you read the book you have a clear understanding about the functionality and interactivity of the world's largest distributed database and transaction systems on different levels of abstraction. So the demands of the hardware architecture and the concepts of the software design from operating system to application level are omnipresent illustrated and result in a feeling the reader will sense as a whole model of understanding. I recommend the book to everyone who makes decisions about serious computer questions in databases and in general operation systems. It gives also a profound example for good software engineering. By the way it demonstrates how to write a reliable (!) OS, how to propagate the certainty of having a process or not from the clock dependent processor tick level to the front end ATM human computer interface. I hope there will be a next edition with updated values about the actual hardware specifications.

Kurzbeschreibung The key to client/server computing. Transaction processing techniques are deeply ingrained in the fields of databases and operating systems and are used to monitor, control and update information in modern computer systems. This book will show you how large, distributed, heterogeneous computer systems can be made to work reliably. Using transactions as a unifying conceptual framework, the authors show how to build high-performance distributed systems and high-availability applications with finite budgets and risk. The authors provide detailed explanations of why various problems occur as well as practical, usable techniques for their solution. Throughout the book, examples and techniques are drawn from the most successful commercial and research systems. Extensive use of compilable C code fragments demonstrates the many transaction processing algorithms presented in the book. The book will be valuable to anyone interested in implementing distributed systems or client/server architectures. This is the one book you ought to have if you want to expand your knowledge of online transaction processing (OLTP) and learn how to apply it to the real world. Transaction Processing completely covers the problems faced by OLTP systems and discusses fault tolerance and recovery--the ability of a system to withstand failures of various kinds without dropping the ball. Additionally, Gray and Reuter cover system architecture decisions, monitoring, concurrence (including locks and isolation), scheduling (including deadlock resolution), and file systems. The book concludes with a discussion (circa 1993) of the merits of various hardware and software used in OLTP systems. Although there is no companion CD-ROM with Transaction Processing, the authors do illustrate many of the book's concepts with C source code. As this is a college textbook, you can expect some dry prose and academic approaches to certain problems. Nonetheless, the authors' writing is clear and easy to follow.

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