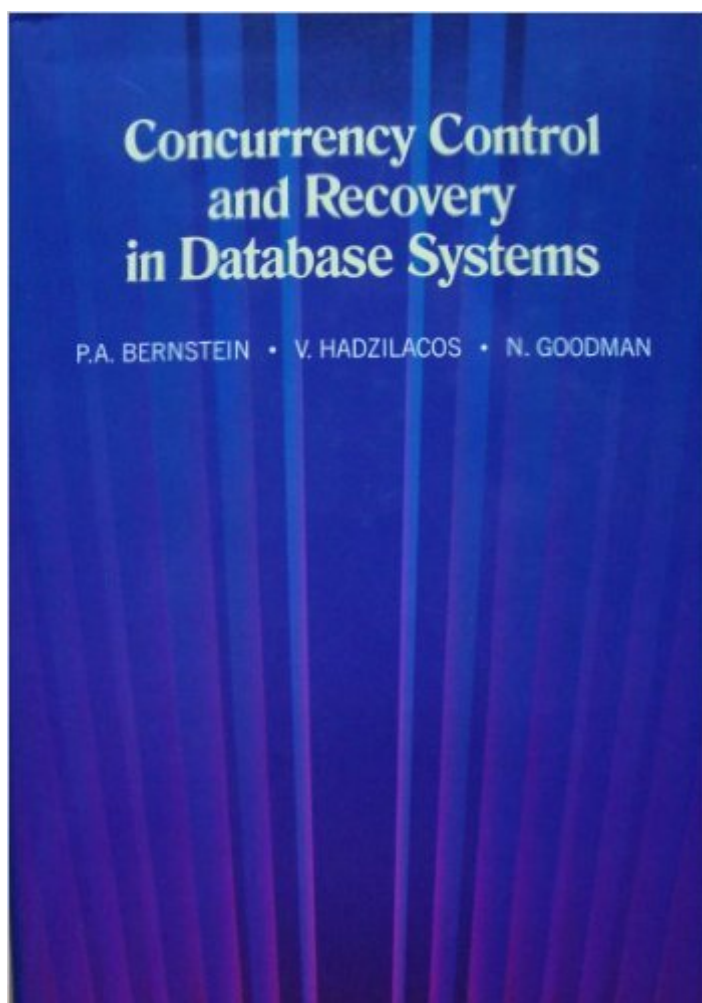# Concurrency Control And Recovery In Database Systems

Concurrency Control
and Recovery
in Database Systems

P.A. BERNSTEIN · V. HADZILACOS · N. GOODMAN

Synopsis

Concurrencey Control and Recovery in Database Systems. P.A. Bernstein. Copyright 1987, Addison-Wesley, Reading. Hardcover in fine condition. Binding is secure, cover and spine are clean with minimal wear. NO writing or highlighting was observerd in text. Dust jacket in very good Shelved in Technology. The Bookman serving Colorado Springs since 1990.

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Customer Reviews

The Concurrency Control and Recovery in Database Systems, by Bernstein, Hadzilacos and Goodman is the jewel for the Theory of Transaction Management and Concurrency Control in Database Systems. Despite of the fact that it is out of print (the last edition going back to 1987), it is still consider up to date and the best source for important aspects of the implementation of the transaction manager of a DBMS such as: - Transaction design -- query formulation, isolation, degree desired, and transaction length - Serializabilty -- criterion for serializability, serialization graph, serialization order - Atomicity -- avoiding dirty reads, repeatable reads, phantom reads - Concurrency control -- two phase locking, resource & data contention, thrashing, detect deadlocks, intention locks, deadlock avoidance protocols, other concurrency control mechanisms - Recovery -- tolerating failures and guaranteeing atomicity, quantitative conclusionsAgain, I would recommend this textbook to anyone who interests in the theory of Database Systems in general and at the Theory of Transaction Management in particular.Regards, Prof. Sarbanes C U N Y Queens CollegeP.S. : I am looking for adopting this book for my database course for the Fall 2000, but I can

NOT find this text book easily. Any help for this matter, would be greatly appreciated.

This book is outstanding. It is THE text to have for a study and understanding of database concurrency control algorithms and the concepts of concurrency control. In my work and writings, I always refer to this text and its precisely-defined properties for proper concurrency control (recoverable (RC), avoidance of cascading aborts (ACA), serializable (SR), and strict (ST)) in lieu of the more-often-cited but less precise "ACID" criteria.

It is a very useful book and also simple and intuitive. As a Java developer I often read about transactions, but it is hard to understand what that means. Java books are usually vague and unclear on database transactions, even though transactions are one of the key part of Java EE. It is disheartening to read how important is something the author does not understand himself. Finally, I started reading about databases, and that helped. This book helped me to understand what all that transactional stuff really mean.

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