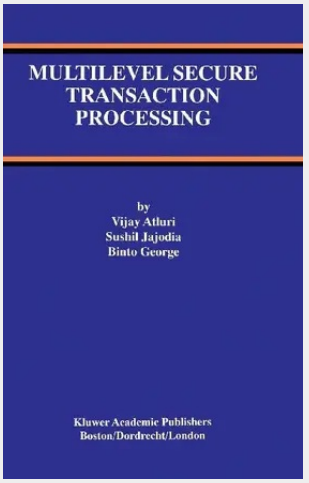
Atluri / Jajodia / George

Multilevel Secure Transaction Processing



Information security is receiving a great deal of attention as computers increasingly process more and more sensitive information. A (MLS DBMS) is designed to store, retrieve and process information in compliance with certain mandatory security requirements, essential for protecting sensitive information from unauthorized access, modification and abuse. Such systems are characterized by data objects labeled at different security levels and accessed by users cleared to those levels. Unless transaction processing modules for these systems are designed carefully, they can be exploited to leak sensitive information to unauthorized users.
In recent years, considerable research has been devoted to the area of multilevel secure transactions that has impacted the design and development of trusted MLS DBMS products. presents the progress and achievements made in this area. The book covers state-of-the-art research in developing secure transaction processing for popular MLS DBMS architectures, such as kernelized, replicated, and distributed architectures, and advanced transaction models such as workflows, long duration and nested models. Further, it explores the technical challenges that require future attention.
is an excellent reference for researchers and developers in the area of multilevel secure database systems and may be used in advanced level courses in database security, information security, advanced database systems, and transaction processing.

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