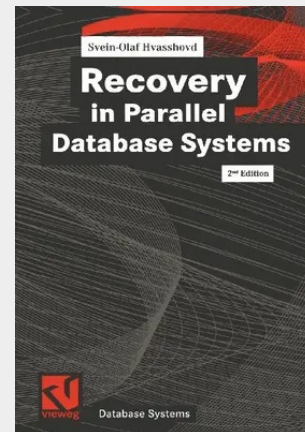


Recovery in Parallel Database Systems

The relational DBMS technology is a success in the commercial market. This success has led to the use of DBMS technology in application environments requesting their traditional virtues but at the same time adding new requirements such as: Very high transaction rates, real-time transaction response, and continuous availability. New multi-processor hardware architectures lay the foundation making it possible to meet these requirements. This book presents and analysis in a systematic way the main recovery approaches for centralised DBMSs developed over the last two decades, in particular to how well they fulfil the requirements for availability and soft real-time response. The analysis relates specifically to approaches used in current commercial and research systems. The element in particular lacking in the current methods is the ability to on-line re-establish the faulttolerance level automatically and without blocking. A set of novel recovery methods for parallel DBM's based on multi-computer shared nothing hardware is presented. The recovery methods are intended to support: Continuously available transaction services, very high transaction loads, and soft real-time transaction response. Dieses Buch gibt einen guten, systematisch gegliederten Einblick in die maßgeblichen Methoden des Recovery ("Wiederherstellung"), eines der wichtigsten Themen im Bereich des Handlings großer Datenbanksysteme. Dabei geht es darum, wie die Verfügbarkeit korrekter Daten gewährleistet sowie Transaktionen und Änderungen von Daten hinsichtlich Echtzeit möglichst optimal bewerkstelligt werden können. Behandelt werden sowohl kommerzielle wie auch in der Forschung verwandte parallele Systeme.

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