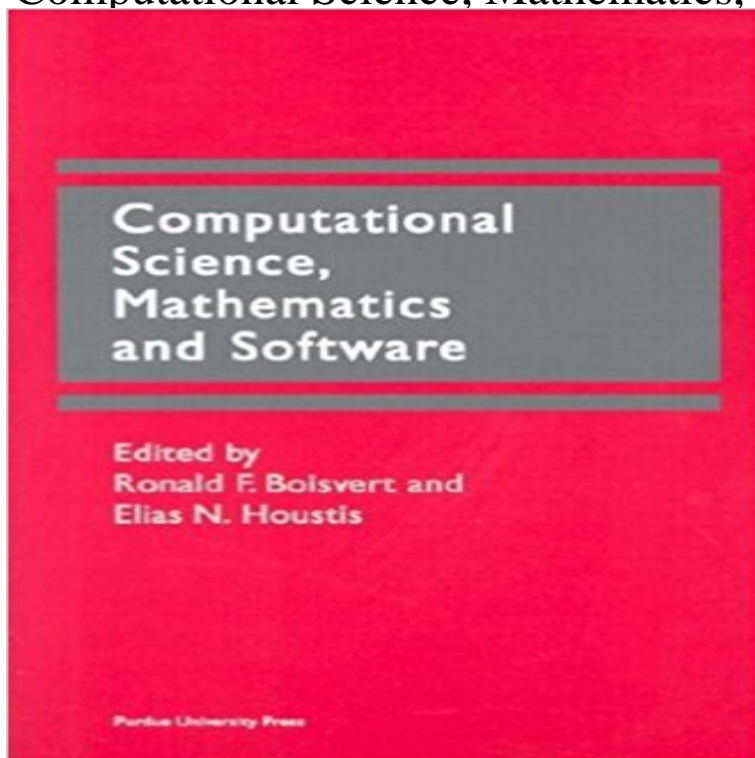


Computational Science, Mathematics, and Software: A Current Overview



The foundation of computational science is computational mathematics, and the general-purpose tools used to do computational mathematics are known as mathematical software. Computational Science, Mathematics, and Software provides an overview of the latest research in these areas. It contains 19 contributions from 30 leading researchers who participated in the International Symposium for Computational Science held at Purdue University in May 1999. They gathered to celebrate the 65th birthday of Professor John R. Rice of Purdue University, one of the true pioneers in this area. Among the topics discussed are delivery mechanisms for numerical algorithms, intelligent systems for recommending scientific software, the architecture of scientific problem-solving environments, algorithms and software for mathematical models based on partial differential equations, and techniques for exploiting vector computers, parallel computers, and the emerging information power grid. A retrospective of the first 50 years of mathematical software development is also included.

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