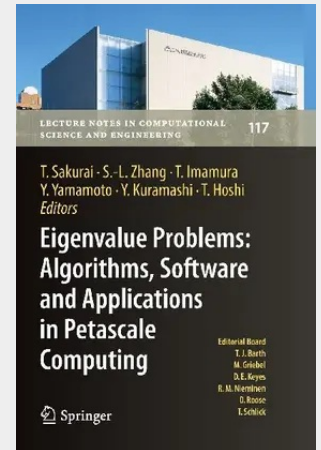


Eigenvalue Problems: Algorithms, Software and Applications in Petascale Computing

EPASA 2015, Tsukuba, Japan, September 2015

This book provides state-of-the-art and interdisciplinary topics on solving matrix eigenvalue problems, particularly by using recent petascale and upcoming post-petascale supercomputers. It gathers selected topics presented at the International Workshops on Eigenvalue Problems: Algorithms; Software and Applications, in Petascale Computing (EPASA2014 and EPASA2015), which brought together leading researchers working on the numerical solution of matrix eigenvalue problems to discuss and exchange ideas – and in so doing helped to create a community for researchers in eigenvalue problems. The topics presented in the book, including novel numerical algorithms, high-performance implementation techniques, software developments and sample applications, will contribute to various fields that involve solving large-scale eigenvalue problems.

Provides state-of-the-art and cross-cutting (applied math, HPC, application etc.) researches on eigenvalue problems Includes the results on novel numerical libraries for solving eigenvalue problems Includes the results by using large-scale parallel computers such as the K computer in Japan



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