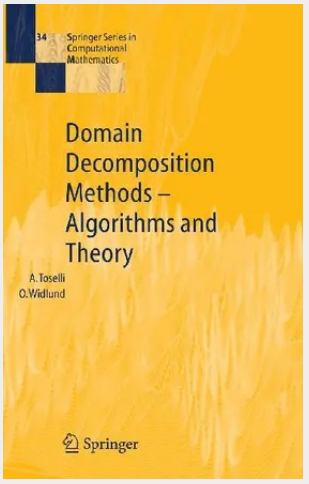
Toselli / Widlund

Domain Decomposition Methods - Algorithms and Theory

This book offers a comprehensive presentation of some of the most successful and popular domain decomposition preconditioners for finite and spectral element approximations of partial differential equations. It places strong emphasis on both algorithmic and mathematical aspects. It covers in detail important methods such as FETI and balancing Neumann-Neumann methods and algorithms for spectral element methods.

Abstract Theory of Schwarz Methods.- Two-Level Overlapping Methods.- Substructuring Methods: Introduction.- Primal Iterative Substructuring Methods.- Neumann-Neumann and FETI Methods.- Spectral Element Methods.- Linear Elasticity.- Preconditioners for Saddle Point Problems.- Problems in H (div ; ?) and H (curl ; ?).- Indefinite and Nonsymmetric Problems.- Elliptic Problems and Sobolev Spaces.- Galerkin Approximations.- Solution of Algebraic Linear Systems.



139,09 €
129,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540206965
Medium: Buch
ISBN: 978-3-540-20696-5
Verlag: Springer
Erscheinungstermin: 18.10.2004
Sprache(n): Englisch
Auflage: 1. Auflage 2004
Serie: Springer Series in Computational Mathematics
Produktform: Gebunden
Gewicht: 898 g
Seiten: 450
Format (B x H): 160 x 241 mm