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Nota di contenuto	Multigrid methods: Fundamental algorithms, model problem analysis and applications -- Multi-grid convergence theory -- Guide to multigrid development -- The multi grid method and artificial viscosity -- Defect corrections and multigrid iterations -- On multigrid methods of the two-level type -- The convergence rate of a multigrid method with Gauss-Seidel relaxation for the poisson equation -- A multigrid finite element method for the transonic potential equation -- Sparse matrix software for elliptic PDE's -- Multigrid software for the solution of elliptic problems on rectangular domains: MGOO (release 1) -- On multi-grid iterations with defect correction -- Adaptive-grid methods for time-dependent partial differential equations -- Mixed defect correction iteration for the accurate solution of the convection diffusion equation -- Analysis and comparison of relaxation schemes in robust multigrid and preconditioned conjugate gradient methods -- The contraction number of a class of two-level methods; an exact evaluation for some finite element subspaces and model problems -- Application of the multigrid method to a nonlinear indefinite problem -- Multi-grid methods for simple bifurcation problems -- Use of the multigrid method for laplacian problems in three dimensions -- Applications of multi-grid methods for transonic flow calculations -- A robust and efficient multigrid method.

