Griffiths

Numerical Analysis

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Splines in interactive computer graphics.- Some methods for separating stiff components in initial value problems.- Approximation order from smooth bivariate PP functions.- The numerical solution of integral equations with weakly singular kernels.- A trust-region approach to linearly constrained optimization.- Multigrid methods for problems with a small parameter in the highest derivative.- Nonconvex minimization calculations and the conjugate gradient method.- Particle approximation of linear hyperbolic equations of the first order.- Global error estimation for stiff ODEs.- Numerical techniques for nonlinear multi-parameter problems.- Sequential defect correction for high-accuracy floating-point algorithms.- Numerical experiments with partially separable optimization problems.- The numerical solution of total lp approximation problems.- An implicit diffusive numerical procedure for a slightly compressible miscible displacement problem in porous media.- Singularities in three-dimensional elliptic problems and their treatment with finite element methods.

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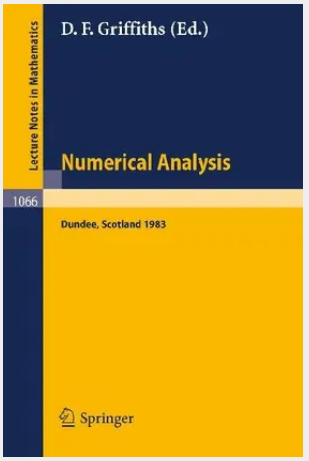

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