

Contents

<i>E.M. Abdalass, J.F. Maitre and F. Musy</i>	
A multigrid solver for a stabilized finite element discretization of the Stokes problem	1
<i>R.E. Bank</i>	
A-posteriori error estimates, adaptive local mesh refinement and multigrid iteration	7
<i>R.E. Bank and H.D. Mittelmann</i>	24
Continuation and multi-grid for nonlinear elliptic systems	
<i>B.J. Braams</i>	39
Magnetohydrodynamic equilibrium calculations using multigrid	
<i>D. Braess</i>	
On the combination of the multigrid method and conjugate gradients	53
<i>A. Brandt, D. Ron and D.J. Amit</i>	66
Multi-level approaches to discrete-state and stochastic problems	
<i>A. Brandt and S. Ta'asan</i>	100
Multigrid method for nearly singular and slightly indefinite problems	
<i>L. Fuchs</i>	123
An adaptive multi-grid scheme for simulation of flows	
<i>W. Hackbusch and Z.P. Nowak</i>	136
Multigrid methods for calculating the lifting potential incompressible flows around three-dimensional bodies	
<i>P.W. Hemker</i>	150
Defect correction and higher order schemes for the multi grid solution of the steady Euler equations	
<i>A. Jameson</i>	167
Multigrid algorithms for compressible flow calculations	
<i>O. Kolp and H. Mierendorff</i>	203
Bus coupled systems for multigrid algorithms	
<i>J. Mandel</i>	220
On multigrid and iterative aggregation methods for nonsymmetric problems	
<i>O. McBryan and E.F. Van de Velde</i>	233
The multigrid method on parallel processors	

<i>U. Råde and Chr. Zenger</i>	
On the treatment of singularities in the multigrid method	262
<i>W. Schröder and D. Hänel</i>	
A comparison of several MG-methods for the solution of the time-dependent Navier-Stokes equations	273
<i>S.P. Spekreijse</i>	
Second order accurate upwind solutions of the 2D steady Euler equations by the use of a defect correction method	286
<i>P. Vassilevski</i>	
Multigrid method in subspace and domain partitioning in the discrete solution of elliptic problems	302
<i>A.J. van der Wees</i>	
FAS multigrid employing ILU/SIP smoothing: A robust fast solver for 3D transonic potential flow	316
Contents of the GMD-Study no. 110	333
Participants	334