

CONTENTS

<u>C T H BAKER</u> : Runge-Kutta methods for Volterra integral equations of the second kind	1
<u>I BARRODALE</u> : Best approximation of complex-valued data	14
<u>D BOLEY and G H GOLUB</u> : Inverse eigenvalue problems for band matrices ..	23
<u>J S R CHISHOLM</u> : Multivariate approximants with branch points.....	32
<u>L COLLATZ</u> : The numerical treatment of some singular boundary value problems.....	41
<u>M G COX</u> : The incorporation of boundary conditions in spline approxi- mation problems.....	51
<u>J DOUGLAS JR, T DUPONT and P PERCELL</u> : A time-stepping method for Galerkin approximations for nonlinear parabolic equations.....	64
<u>A GEORGE</u> : An automatic one-way dissection algorithm for irregular finite element problems	76
<u>A R MITCHELL and D F GRIFFITHS</u> : Generalised Galerkin methods for second order equations with significant first derivative terms	90
<u>J J MORE</u> : The Levenberg-Marquardt algorithm: Implementation and theory	105
<u>M R OSBORNE and G A WATSON</u> : Nonlinear approximation problems in vector norms	117
<u>V PEREYRA</u> : Finite difference solution of two-point boundary value problems and symbolic manipulation	133
<u>M J D POWELL</u> : A fast algorithm for nonlinearly constrained optimization calculations	144
<u>R W H SARGENT</u> : The decomposition of systems of procedures and algebraic equations.....	158
<u>H J STETTER</u> : Global error estimation in ODE-solvers	179
<u>E L WACHSPRESS</u> : Isojacobian crosswind differencing	190