

**Proceedings
of the ninth South African**

**SYMPOSIUM
ON
NUMERICAL MATHEMATICS**

Durban 18, 19 & 20 July 1983

**sanum & the
dept.of computer science
university of natal
durban**



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JA Snyman

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PREFACE

Since the first symposium on Numerical Mathematics held in 1975, the Symposia, organised by the Department of Computer Science of the University of Natal, have become major annual events on the South African mathematical calendar. The ninth Symposium, the second to be organised in conjunction with the South African Society for Numerical Mathematics (SANUM), was held in Durban on 18, 19 and 20 July 1983. A total of 29 papers were read to a gathering of more than 40 delegates.

The Proceedings are a published record of most of the papers presented. The choice was left to the authors as to whether they wished to publish their papers in full or as a summary. All contributions included in the Proceedings are published as received from authors.

Invited papers were read by Professor LM Delves of the University of Liverpool and by Professor Victor Pereyra of the University of Venezuela.

The organisers again wish to express their gratitude to IBM (South Africa) for their generous financial support, not only of the Ninth Symposium, but for their sponsorship over the years since the inaugural Symposium in 1975. Through their assistance we are able to look forward to celebrating the Tenth Symposium on Numerical Mathematics on 2-4 July 1984. This support has enabled us to regularly invite overseas speakers thus greatly stimulating research in this field in Southern Africa. Our sincere thanks also to Univac for their generous contribution to our Ninth Symposium.

The Society also wishes to express a special word of appreciation and thanks to Ms Ethel Carte of the Computer Science Department for assisting with the organisation of the Symposium.

JA Snyman
(Secretary SANUM)

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CONTENTS

	page
Preface.....	iii
Participants.....	iv
A new algorithm for the solution of band matrices on the ICL DAP by L.M. Delves and A.S. Samba.....	1
Subtraction techniques for reservoir problems by L.M. Delves.....	11
Deferred corrections software and its application to seismic ray tracing by V. Pereyra.....	25
Some comments on the solution by collocation of two point boundary value problems with boundary layers by C.J. Wright.	27
Lateral boundary conditions for a limited area numerical weather prediction model by H.A. Riphagen.....	41
Discontinuous test functions in Galerkin approaches in ocean modelling by G.B. Brundrit and D. van Foreest.....	57
A general pressure-velocity numerical method for the calculation of two-dimensional elliptic flows by G.P. Greyvenstein.....	71
The method of lines: instability detection by Richardson extrapolation by R.A.B. Bond.....	97
Conformal mapping as an aid to finite element grid generation by D.P. Laurie.....	99
Stable parabolic approximation of parametric curves by M.L. Baart.....	106
Some singularities in the rate of convergence of certain iterations by J.D. Kies.....	107
Dynamic minimization algorithms - an assessment by J.A. Snyman.....	112
Separable expansion method for solving the integral equations of quantum scattering theory by D. Eyre.....	113
Differential optimization techniques by D.J. van Wyk.....	115
Iterative methods for calculating the dominant eigenvectors of an Hermitian matrix by H.G. Miller.....	131
On the reduction of a boundary value problem to a variational problem by I.M. Snyman.....	134
A Petrov-Galerkin method with shifted spline test function by S.W. Schoombie and M.F. Maritz.....	145
Discrete maximum principles and finite elements by I. Christie.....	158
The Global Element Method for parabolic differential equations by G.N. Bakkes and J.F. Botha.....	168

	page
A linear programming approach to energy modelling by P.J. Vermeulen.....	179
Spline Galerkin method for solving integral equations with non-smooth solution functions by A. Alaylioglu and D. Eyre.	180
Ergodic behaviour of a conservative dynamical system by E. Evangelidis and J.D. Neethling.....	188
A numerical method for the solution of certain boundary value problems, yielding explicit error bounds by J.A.C. Weideman.....	189
Nonlinear smoothers with stable behaviour by C.H. Rohwer.....	207
Numerical integration of functions with singularities inside the interval of integration by D.S. Lubinsky.....	217
On the Navier-Stokes equations in the modelling of flow through a large pore nuclepore filter by J.W. Rossouw and A.H. Leuschner.....	218
Numerical solution of the integro-differential equation for hydrodynamic dispersion by J.F. Botha.....	219