PROGRAMME

THIRTEENTH

SOUTH AFRICAN SYMPOSIUM

ON

NUMERICAL MATHEMATICS

UMHLANGA ROCKS, 13, 14 & 15 JULY 1987

PARTICIPANTS - DEELNEMERS

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TITELS VAN REFERATE - TITLES OF PAPERS

NAME	TITLE
Baart L	*Classification of two-dimensional parametric cubics*
Benade J G	*Criticity with respect to vertex partition parameters of graphs*
Bird W W and Martin J B	*Consistent predictors and the solution of the piecewise holonomic incremental problem in elasto-plasticity*
Blecher M H and Leach P G L	*The application of reduce to the analytic solution of a 1-D Schrödinger Equation*
Botha J F	*Modelling unsaturated/ saturated ground-water flow*
Botha J D and Shapiro A	*Dual algorithms for procrustes rotations*
Cloot A and Herbst B M	*A model for the propagation of rounding error in a Klein-Gordon Equation*
Crosby C P, Meyer J P and Mathews E H	*Numerical prediction of wind-induced pressure distributions on film clad greenhouses*
Delic G, Louw D F B and Neethling J D	*Solving a system of non-linear PDE's with a spectral function method*
De Villiers J M	*Nodal splines and quadrature*
De Villiers M and Pretorius L	*Thermal description of enclosed cavities*
Du Plooy A	*A three-dimensional geoelectrical problem modelled by a boundary integral method*
Eyre D	*Numerical treatment of the stochastic collection equation*
Fairweather G	*Packages for solving certain almost block diagonal linear systems*
	The method of fundamental solutions for plane biharmonic problems

Gledhill I	*Parallel processing applied to plasma simulation*
Gorringe V M and Leach P G L	*The application of reduce to the determination of symmetries of differential equations*
Greben J M	*Numerical solution of non-linear integral differential equations arising from QCD*
Herbst B M, Weideman J A C and Cloot A	*A numerical studie of the non-linear Schrödinger equation involving quintic terms*
Knoptmacher A	*Weighted Markov-Bernstein inequalities*
Laurie D P	*How to evaluate practical error estimates*
Lubinsky D S	*Determinants of Toeplitz matrices and PADE approximants*
Miller H G, Quick J P F and Quick R M	*A simple strategy for finding the low-lying solutions of the non-linear hartree fock equations*
Murray D M	*An alternative procedure for the computation of relative weights in SAATY's AHP*
Orlowski M	*On the largest empty rectangle and other maxdominance problems*
Orlowska M E	*An efficient algorithm for finding holes in whole*
Pachter M	*The calculation of the region of capturability/controllability in differential games and optimal control problems*
Pretorius L	*A three dimensional thermal analysis of plug flow*
Quick R M, Marè E Lancken M vd and Miller H G	*An optimized "2Nx2N" Lanczos algorithm*
Rabinowitz P	*Product integration based on generalized Hermite-Fejer interpolation*
Rohwer C H	*The fast computation of Dolph-Chebyshev coefficients*

Sloan D M	*A comparison of pseudospectral methods for the KdV equation*
Sniedovich M	*Interactive computing, modelling and analysis*
Snyman J A	*A feasible direction interior method for solving LP-problems*
Watson G A	*Data fitting by sums of exponentials*
	Solving overdetermined systems of complex linear equations
Yavin Y and de Villiers R	*A pursuit-evasion differential game with the probability of a random measure as a cost function*

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