

CONTENTS OF VOLUME 23

D. H. ANDERSON, E. A. CATCHPOLE, N. J. DE MESTRE and T. PARKES: Modelling the spread of grass fires	451
R. S. ANDERSSSEN and R. B. CALLIGARO: Non-destructive testing of optical-fibre pre-forms	127
KENDALL ATKINSON: Numerical integration on the sphere	332
MICHAEL N. BARBER and C. J. HAMER: Extrapolation of sequences using a generalized epsilon algorithm	229
J. R. BLAKE and P. CERONE: A note on the impulse due to a vapour bubble near a boundary	381
JOHN M. BLATT: Optimal control theory with general constraints	115
A. J. BRACKEN: A transformation to linearity of some non-linear differential-difference equations	416
R. D. BRADDOCK: <i>See</i> J.-Y. PARLANGE	
A. BROWN: Equations for periodic solutions of a logistic difference equation	78
JAMES CALDWELL: Effects of iron on a toroidal conductor	103
R. B. CALLIGARO: <i>See</i> R. S. ANDERSSSEN	
E. A. CATCHPOLE: <i>See</i> D. H. ANDERSON	
P. CERONE and K. P. TOGNETTI: The asymptotic behaviour due to a piecewise time dependent net maternity function	438
P. CERONE: <i>See</i> J. R. BLAKE	
W. L. CHAN: Suboptimality in linear control systems with time delay	428
J. V. CORBETT: The commutation relation $i[Y, Z] = 2Y$ and the absolutely continuous spectrum of Y	420
N. J. DE MESTRE: <i>See</i> D. H. ANDERSON	
D. D. DO and R. H. WEILAND: Dynamics of rapid extinction in a lumped system with Arrhenius chemistry	278
D. J. GATES and M. WESTCOTT: Extended optima and equilibria for continuous games	
II. A class of economic models	187
III. Comparison with bargaining experiments	210
C. J. HAMER: <i>See</i> MICHAEL N. BARBER	
P. G. HOWLETT: Input retrieval in finite dimensional linear systems	357
M. T. KIANG: <i>See</i> K. K. TAM	
R. KLEEMAN: On representations of a generalized method of field quantization	52
P. G. L. LEACH: Applications of the Lie theory of extended groups in Hamiltonian mechanics: the oscillator and the Kepler problem	173
J. J. MAHONY and J. J. SHEPHERD: Stiff systems of ordinary differential equations	
I. Completely stiff, homogeneous systems	17
II. Boundary-value problems for completely stiff systems	136
III. Partially stiff systems	310
R. W. O'BRIEN: The gliding motion of a bacterium: <i>Flexibacter</i> strain BH3	2
T. PARKES: <i>See</i> D. H. ANDERSON	
J.-Y. PARLANGE, R. D. BRADDOCK, G. SANDER and F. STAGNITTI: Three dimensional similarity solutions of the nonlinear diffusion equation from optimization and first integrals	297
C. E. M. PEARCE: A generalization of Rapp's formula	291

RENFREY B. POTTS: Exact solution of a difference approximation to Duffing's equation	64
RENFREY B. POTTS: Best difference equation approximation to Duffing's equation	349
G. SANDER: <i>See</i> J.-Y. PARLANGE	
J. J. SHEPHERD: <i>See</i> J. J. MAHONY	
F. STAGNITTI: <i>See</i> J.-Y. PARLANGE	
K. K. TAM and M. T. KIANG: The response to a hot spot in a combustion problem	95
K. P. TOGNETTI: <i>See</i> P. CERONE	
E. O. TUCK: Linearized planing-surface theory with surface tension	
I. Smooth detachment	241
II. Detachment with discontinuous slope	259
E. O. TUCK: An inviscid theory for sliding flexible sheets	403
IZU VAISMAN: On the quantization of quadratic momenta	394
R. H. WEILAND: <i>See</i> D. D. DO	
M. WESTCOTT: <i>See</i> D. J. GATES	