

C O N T E N T S

F V Atkinson:

On the asymptotic behaviour of the Titchmarsh-Weyl m -coefficient and the spectral function for scalar second-order differential expressions 1

F V Atkinson and C T Fulton:

Some limit circle eigenvalue problems and asymptotic formulae for eigenvalues 28

F V Atkinson, J R Haddock and O J Staffans:

Integral inequalities and exponential convergence of solutions of differential equations with bounded delay 56

D L Barrow and P W Bates:

Bifurcation of periodic travelling waves for a reaction-diffusion system .. 69

H Behncke:

The Dirac equation with an anomalous magnetic moment II 77

V Benci, A Capozzi and D Fortunato:

Periodic solutions of a class of Hamiltonian systems 86

P J Browne:

Multiparameter problems : the last decade 95

R C Brown:

An approach to the Dirichlet index for operators satisfying minimal conditions 110

J A Burns and E M Cliff and J M Amillo Gil

Nonlinear neutral functional differential equations in product spaces 118

P A Clarkson and J B McLeod:

A connection formula for the second Painlevé transcendent 135

D Colton:

The inverse scattering problem for acoustic waves 143

J Dubois and P Morales:

On the Hukuhara-Kneser property for some Cauchy problems in locally convex topological vector spaces 162

N X Dũng:

Essential self-adjointness and self-adjointness for generalized Schrödinger operators 171

M S P Eastham:

Asymptotic theory for a critical class of fourth-order differential
equations 179

Á Elbert:

Oscillation and nonoscillation theorems for some nonlinear ordinary
differential equations 187

D E Edmunds:

Entropy numbers, s-numbers and eigenvalues 213

P C Fife and B Nicolaenko:

The singular perturbation approach to flame theory with chain and
competing reactions 232

J Fleckinger:

On the singular values of non-self-adjoint operators of Schrödinger type .. 251

I M Gali:

Optimal control of systems governed by elliptic operator of infinite order 263

V B Goyal and P W Schaefer:

Comparison principles for some fourth order elliptic problems 272

R C Grimmer and W Schappacher:

Weak solutions of integrodifferential equations and applications 280

D B Hinton and J K Shaw:

Titchmarsh's λ -dependent boundary conditions for Hamiltonian systems 298

F A Howes:

Exterior boundary value problems for perturbed equations of elliptic type . 318

H G Kaper, C Gerrit Lekkerkerker and A Zettl:

Linear transport theory and an indefinite Sturm-Liouville problem 326

R M Kauffman:

Non-normalizable eigenfunction expansions for ordinary differential
operators 362

H W Knobloch:

Some aspects and recent developments in linear control theory 368

I W Knowles:

Eigenvalue problems and the Riemann zeta-function 388

M A Kon and L A Raphael:

Superposition principles and pointwise evaluation of Sturm-Liouville eigenfunction expansions	406
---	-----

K Kreith:

Qualitative theory of hyperbolic characteristic initial value problems ¹ ...	416
---	-----

R T Lewis:

Applications of a comparison theorem for quasi-accretive operators in a Hilbert space	422
---	-----

L L Littlejohn and A M Krall:

A singular sixth order differential equation with orthogonal polynomial eigenfunctions	435
--	-----

S-O Londén:

On the asymptotics of some Volterra equations with locally finite measures and large perturbations	445
--	-----

J Mawhin:

Periodic oscillations of forced pendulum-like equations	458
---	-----

R C MacCamy and E Stephan:

A simple layer potential method for three-dimensional eddy current problems	477
---	-----

A C McBride:

Index laws for some ordinary differential operators	485
---	-----

P A McCoy:

Converse initial value problems for a class of heat equations	494
---	-----

J R McLaughlin:

Higher order inverse eigenvalue problems	503
--	-----

A B Mingarelli:

Indefinite Sturm-Liouville problems	519
---	-----

S E A Mohammed:

The infinitesimal generator of a stochastic functional differential equation	529
--	-----

M Nakao:

On solutions to the initial-boundary problem for perturbed porous medium equation	539
---	-----

<u>F Neuman:</u>	
A survey of global properties of linear differential equations of the n-th order	548
<u>D Pascali:</u>	
Strongly nonlinear evolution variational inequalities	564
<u>D Race:</u>	
A further result on the essential spectrum of linear 2nth order differential expressions with complex coefficients	569
<u>R Rautmann:</u>	
On error bounds for nonstationary spectral Navier-Stokes approximations ...	576
<u>T T Read:</u>	
Sectorial second order differential operators	584
<u>H Röh:</u>	
Spectral mapping theorems for dissipative C_0 -semigroup generators	591
<u>D A Sánchez:</u>	
Some preliminary results on periodic solutions of matrix Riccati equations	598
<u>R Saxton:</u>	
Solitary and travelling waves in a rod	603
<u>K Seitz:</u>	
Investigations in the theory of partial differential equations of infinite order	609
<u>J K Shaw and D B Hinton:</u>	
Well-posed boundary problems for Hamiltonian systems of limit point or limit circle type	614
<u>K Soni:</u>	
On uniform asymptotic expansion of a class of integral transforms	632
<u>R L Sternberg, M J Goldstein and D Drinkard:</u>	
On a new numerical method for a new class of nonlinear partial differential equations arising in nonspherical geometrical optics	642
<u>A Z-A M Tazali:</u>	
Local existence theorems for ordinary differential equations of fractional order	652
<u>Tung Chin-Chu:</u>	
Application of the theorem of connectivity of M^7 in astronomy	666

<u>L Turyn:</u>	
Perturbations of periodic boundary conditions	675
<u>A Vanderbauwhede:</u>	
Bifurcation problems with triangular symmetry	686
<u>J Walter:</u>	
On the foundations of thermodynamics	695
<u>A D Wood and R B Paris:</u>	
On some conjectures on the deficiency index for symmetric differential operators	703
<u>S D Wray:</u>	
On a second-order differential expression and its Dirichlet integral	710
<u>E M E Zayed:</u>	
An inverse eigenvalue problem for the Laplace operator	718