

INDEX TO VOLUME 6

- Arnold, D., Vinsonhaler, C. I., and Wickless, W. J. *Quasi-pure projective and injective torsion free abelian groups of rank 2*, 61.
- Balachandra, M. B. *A generalization of the reduced equation in singularly perturbed systems*, 513.
- Bohac, Robert. See McKelvey, R.
- Brandal, Willy. *Constructing Bezout domains*, 383.
- Breakwell, John V. *Asymptotic matching for planetary flybys*, 515.
- Buschman, R. G. See Srivastava, H. M.
- Bush, William B. *Axial incompressible viscous flow past a slender body of revolution*, 527.
- Cheeney, E. W., and Rivlin, T. J. *A note on some Lebesgue constants*, 435.
- Chow, Pao-Liu. *A perturbation problem in the scattering of waves*, 745.
- Cohen, Donald S. *Instabilities in chemically reacting mixtures*, 551.
- Comstock, Craig, and Hsiao, George C. *Singular perturbations for difference equations*, 561.
- Consul, P. C. See Shenton, L. R.
- DeMyer, F. R. *The Brauer group of a ring modulo an ideal*, 191.
- Diestel, J., and Uhl, J. J., Jr. *The Radon-Nikodym theorem for Banach space valued measures*, 1.
- Elkins, B., and Zilber, J. A. *Categories of actions and Morita equivalence*, 199.
- Etgen, G. J., and Taylor, W. E., Jr. *On the oscillation of a class of fourth order differential equations*, 71.
- Farrell, F. Thomas. *Right-orderable deck transformation groups*, 441.
- Flaherty, J. E., and O'Malley, R. E., Jr. *The numerical solution of boundary value problems for stiff differential equations*, 569.
- Franke, Richard. *On the convergence of an algorithm for rational Chebyshev approximation*, 227.
- Fricke, Gerd H. *Entire functions with prescribed asymptotic behavior*, 237.
- Gay, David A. *Characters of the Weyl group of $SU(n)$ on zero weight spaces and centralizers of permutation representations*, 449.
- Gingold, H. *Introduction to differential equations with moving singularity*, 571.
- Gingras, Armando R. *Convergence lattices*, 85.
- Gray, William J., and Nelson, James, Jr. *Commuting monotone mappings on dendroids*, 105.
- Greenberg, J. M. *Periodic solutions to a wave equation*, 755.
- Greenlee, W. M. *Singular perturbation of simple eigenvalues*, 575.
- Gulick, Denny, and Gulick, Frances. *Boundedness for spaces of continuous functions*, 247.
- Gulick, Frances. See Gulick, Denny.
- Gustafson, G. B. *A Green's function convergence principle with applications to computation and norm estimates*, 457.
- Gustafson, G. B. *A multiple-zero lemma for linear boundary value problems*, 109.
- Guthrie, J. A. *Some discrete subspaces of $\beta\mathbb{m}$* , 265.
- Hartzman, Carl S. *Diffeomorphisms of tori, their lifts and suspensions*, 269.
- Hastings, Harold M. *Function spaces for the homotopy category of CW complexes*, 117.

- Herstein, I. N., and Lee, Pjek-Hwee. *Commuting skew elements in rings with involution*, 293.
- Holland, Charles J. *Singular perturbation problems using probabilistic methods*, 585.
- Howes, F. A. *A class of boundary value problems whose solutions possess angular limiting behavior*, 591.
- Hsiao, George C. See Comstock, Craig.
- Hsu, D. F. See Leahey, W. J.
- Khurana, Surjit Singh. *Lattice-valued Borel measures*, 377.
- Koch, Richard M., and Lowenthal, Franklin. *On generation subgroups of the affine group on the plane by pairs of infinitesimal transformations*, 119.
- Kokotovic, Petar V. *Singular perturbations in optimal control*, 767.
- Ladde, G. S., Lakshmikantham, V., and Leela, S. *A technique in perturbation theory*, 133.
- Lagerstrom, Paco A. *Forms of singular asymptotic expansions in layer-type problems*, 609.
- Lakshmikantham, V. See Ladde, G. S.
- Leahey, W. J., and Hsu, D. F. *The Diophantine equation $Y^4 = X^3 + X^2 + 1$* , 141.
- Lee, Pjek-Hwee. See Herstein, I. N.
- Lee, Tai-Chi. *Boundary value problems for second order ordinary differential equations and applications to singular perturbation problems on $[a, b] \subset (-\infty, \infty]$* , 761.
- Leela, S. See Ladde, G. S.
- Lelek, A. *Properties of mappings and continua theory*, 47.
- Lovelady, David Lowell. *Oscillation and even order linear differential equations*. 299.
- Lowenthal, Franklin. See Koch, Richard M.
- Martin, Harold W. *A note on the Frink Metrization theorem*, 155.
- Mattson, Don A. *Extensions of uniform and proximity structures*, 159.
- McKelvey, R., and Bohac, Robert. *Ackerberg-O'Malley resonance revisited*, 637.
- Meyerson, Mark D. *Projections of Cantor sets, simple closed curves, and spheres in E^3* , 305.
- Morrison, J. A. *Charge singularity at the vertex of a slender cone of cross-section*, 651.
- Nelson, James, Jr. See Gray, William J.
- Nur, H. S. *Singular perturbation of nonlinear two point boundary value problems*, 757.
- O'Malley, R. E., Jr. See Flaherty, J. E.
- Papanicolaou, G. C. *Some probabilistic problems and methods in singular perturbations*, 653.
- Pelletier, Joan Wick. *A categorical approach to the closed graph theorem*, 493.
- Perko, Lawrence M. *The 1975 Research Conference on Singular Perturbations: Theory and Applications*, 511.
- Perko, L. M. *Applications of singular perturbation theory to the restricted three body problem*, 675.
- Polk, John F. *Asymptotic approximations to the solution of the heat equation*, 697.
- Ponnappalli, Ranachandramurty. *On the weak convergence of similar probability laws*, 167.
- Rivlin, T. J. See Cheney, E. W.

- Rossi, Hugo. *A Docquier-Grauert lemma for strongly pseudoconvex domains in complex manifolds*, 171.
- Sacerdote, George S. *Some logical problems concerning free and free product groups*, 401.
- Sannuti, P. *Use of singular perturbation methods to formulate electrical network equations*, 709.
- Schaar, Richard. *Singularly perturbed conservative systems*, 711.
- Self, William H. *Some consequences of the Beurling-Helson theorem*, 177.
- Shenton, L. R., and Consul, P. C. *A new functional equation with some solutions*, 321.
- Smith, Donald R. See Weinstein, Mills B.
- Srivastava, H. M., and Buschman, R. G. *Mellin convolutions and H-function transformations*, 331.
- Stewart, James. *Positive definite functions and generalizations, an historical survey*, 409.
- Subbarao, M. V., and Subrahmanyasastry, V. V. *A transformation formula for products arising in partition theory*, 345.
- Subrahmanyasastry, V. V. See Subbarao, M. V.
- Sukup, Dwight V. *On the existence of solutions to multipoint boundary value problems*, 357.
- Tang, Min Ming. *Singular perturbations of some quasilinear parabolic equations in divergence form*, 725.
- Taylor, W. E., Jr. See Etgen, G. J.
- Uhl, J. J., Jr. See Diestel, J.
- Umamaheswaram, S. *Some convergence theorems for multipoint boundary value problems in $\lambda(n, k)$ -parameter families*, 503.
- Vinsonhaler, C. I. See Arnold, D.
- Waterman, M. S. *On the approximation of invariant measures for continued fractions*, 181.
- Weinstein, Mills B., and Smith, Donald R. *Comparison techniques for certain overdamped hyperbolic partial differential equations*, 731.
- Wickless, W. J. See Arnold, D.
- Yanowitch, M. *Some singular perturbation problems for wave motions in simple model atmospheres*, 743.
- Zilber, J. A. See Elkins, B.

CONTENTS (Continued from back cover)

Some probabilistic problems and methods in singular perturbations	
By G. C. PAPANICOLAOU	653
Applications of singular perturbation theory to the restricted three body problem	
By L. M. PERKO	675
Asymptotic approximations to the solution of the heat equation	
By JOHN F. POLK	697
Use of singular perturbation methods to formulate electrical network equations	
By P. SANNUTI	709
Singularly perturbed conservative systems	
By RICHARD SCHAAR	711
Singular perturbations of some quasilinear parabolic equations in divergence form	
By MIN MING TANG	725
Comparison techniques for certain overdamped hyperbolic partial differential equations	
By MILLS B. WEINSTEIN AND DONALD R. SMITH	731
Some singular perturbation problems for wave motions in simple model atmospheres	
By M. YANOWITCH	743
A perturbation problem in the scattering of waves	
By PAO-LIU CHOW	745
Periodic solutions to a wave equation	
By J. M. GREENBERG	755
Singular perturbation of nonlinear two point boundary value problems	
By H. S. NUR	757
Boundary value problems for second order ordinary differential equations and applications to singular perturbation problems on $[a, b] \subset (-\infty, \infty]$	
By TAI-CHI LEE	761
Singular perturbations in optimal control	
By PETAR V. KOKOTOVIC	767
Index, Volume 6	775

