## AUTHOR INDEX

## 1982

Volumes 6-7
Throughout this Index, bold face numerals are used to denote the volume number; lightface numerals denote the pages.

## RESEARCH-EXPOSITORY PAPERS

Adams, J. Frank, Graeme Segal's Burnside ring conjecture, 6, 201
Bass, Hyman, Connell, Edwin H and Wright, David, The Jacobian conjecture: Reduction of degree and formal expansion of the inverse, 7, 287
Bott, Raoul, Lectures on Morse theory, old and new, 7, 331
Connell, Edwin H. See Bass, Hyman
Chern, Shiing-Shen, Web geometry, 6, 1
Diamond, Harold, Elementary methods in the study of the distribution of prime numbers, 7, 553
Furstenberg, H., Katznelson, Y. and Ornstein, D., The ergodic theoretical proof of Szemerédi's theorem, 7, 527
Griffiths, Phillip A., Poincaré and algebraic geometry, 6, 147
Hamilton, Richard S., The inverse function theorem of Nash and Moser, 7, 65
Helton, J. William, Non-Euclidean functional analysis and electronics, 7, 1
Igusa, Jun-ichi, Problems on abelian functions at the time of Poincaré and some at present, 6, 161
Katznelson, Y. See Furstenberg, H.
Kempf, George, Inversion of Abelian integrals, 6, 25
Lang, Serge, Units and class groups in number theory and algebraic geometry, 6, 253
Milnor, John, Hyperbolic geometry: The first 150 years, 6, 9
Morawetz, Cathleen Synge, The mathematical approach to the sonic barrier, 6, 127
Ornstein, D. See Furstenberg, H.
Schmid, Wilfried, Poincaré and Lie groups, 6, 175
Simon, Barry, Schrödinger semigroups, 7, 447
Smoryński, C., Fixed point algebras, 6, 317
Stein, E. M., The development of square functions in the work of A. Zygmund, 7, 359
Stillwell, John, The word problem and the isomorphism problem for groups, 6, 33
Sullivan, Dennis, Discrete conformal groups and measurable dynamics, 6, 57
Thurston, William P., Three dimensional manifolds, Kleinian groups and hyperbolic geometry, 6, 357
Wells, R. O. Jr., The Cauchy-Riemann equations and differential geometry, 6, 187
Wright, David. See Bass, Hyman
Zimmer, Robert J., Ergodic theory, group representations, and rigidity, 6, 383

## RESEARCH ANNOUNCEMENTS

Aisbett, Janet, On $K_{3}$ and $K_{4}$ of the integers mod $n, 6,417$
Apostol, Constantin, Herrero, Domingo A., and Voiculescu, Dan, The closure of the similarity orbit of a Hilbert space operator, 6, 421
Avron, Joseph and Simon, Barry, Singular continuous spectrum for a class of almost periodic Jacobi matrices, 6, 81
Avrunin, George S. and Scott, Leonard L., A Quillen stratification theorem for modules, 6, 75
Bank, Steven B. and Laine, Ilpo, On the oscillation theory of $f^{\prime \prime}+A f=0$ where $A$ is entire, 6, 95
Barnsley, M. F., Geronimo, J. S., and Harrington, A. N., Orthogonal polynomials associated with invariant measures on Julia sets, 7, 381
Bell, Steven and Catlin, David, Proper holomorphic mappings extend smoothly to the boundary, 7, 269
Bornaess, John Erik. See Diederich, Klas
Braun, Amiram, The radical in a finitely generated P. I. algebra, 7, 385
Brooks, Robert, Amenability and the spectrum of the Laplacian, 6, 87

Burkholder, D. L., A nonlinear partial differential equation and the unconditional constant of the Haar system in $L^{p}, 7,591$
Catlin, David. See Bell, Steven
Chakiris, K., A Torelli theorem for simply connected elliptic surfaces with a section and $p_{g}>2,7,227$
Connes, A. and Jones, V., A $\mathrm{II}_{1}$ factor with two nonconjugate Cartan subalgebras, 6, 211
Conway, J. H. and Sloane, N. J. A., Lorentzian forms for the Leech lattice, 6, 215
Diederich, Klas and Bornaess, John Erik, Smooth extendability of proper holomorphic mappings, 7, 264
Dwyer, William G. and Friedlander, Eric M., Etale K-theory and arithmetic, 6, 453
Edmonds, Allan L., Ewing, John H. and Kulkarni, Ravi S., Torsion free subgroups of Fuchsian groups and tessellations of surfaces, 6, 456
Ellacott, S. W., A note on a problem of Saff and Varga concerning the degree of complex rational approximation to real valued functions, 6, 218
Ewing, John H. See Edmonds, Allan L.
Fleissner, William G., Normal not paracompact spaces, 7, 233
de Francia, José Luis Rubio, Factorization and extrapolation of weights, 7, 393
Friedlander, Eric M. See Dwyer, William G.
Friedlander, Eric M. and Parshall, Brian, On the cohomology of Chevalley groups, 7, 247
Geller, D. and Stein, E. M., Singular convolution operators on the Heisenberg group, 6, 99
Geronimo, J. S. See Barnsley, M. F.
Goldberg, S. I. and Mueller, C., Brownian motion, geometry, and generalizations of Picard's little theorem, 7, 259
Goldman, William M., Characteristic classes and representations of discrete subgroups of Lie groups, 6, 91
Harrington, A. N. See Barnsley, M. F.
Harrington, Leo and Shelah, Saharon, The undecidability of the recursively enumerable degrees, 6, 79
Hastings, Harold M., The May-Wigner stability theorem for connected matrices, 7, 387
Herrero, Domingo A. See Apostol, Constantin
Hsiang, W.-C. and Pardon, William, Orthogonal transformations for which topological equivalence implies linear equivalence, 6, 459
Hsiang, Wu-yi, New examples of minimal imbeddings of $S^{n-1}$ into $S^{n(1)-t h e ~ s p h e r i c a l ~}$ Bernstein problem for $n=4,5,6,7,377$
Hurder, Steven, Exotic classes for measured foliations, 7, 389
Jones, V. See Connes, A.
Kac, Victor and Watanabe, Kei-ichi, Finite linear groups whose ring of invariants is a complete intersection, 6, 221
Kuhn, N. J., Mitchell, S. A. and Priddy, S. B., The Whitehead conjecture and Splitting $B(\mathrm{Z} / 2)$ k, 7, 255
Kulkarni, Ravi S. See Edmonds, Allan L.
Laine, Ilpo. See Bank, Steven B.
Lanford, Oscar E. III, A computer-assisted proof of the Feigenbaum conjectures, 6, 427
Larson, David R., A solution to a problem of J. R. Ringrose, 7, 243
Lax, Peter D., The multiplicity of eigenvalues, 6, 213
Liu, Tai-Ping, Resonance for quasilinear hyperbolic equation, 6, 463
Lubotzky, Alexander and Magid, Andy R., Unipotent and prounipotent groups: cohomology and presentations, 7, 251
Madsen, Ib and Rothenberg, Mel, Classifying G spheres, 7, 223
Magid, Andy R. See Lubotzky, Alexander
Martin, Donald A., Moschovakis, Yiannis N. and Steel, John R., The extent of definable scales, 6, 435
Minda, C. David, Euclidean, hyperbolic and spherical Bloch constants, 6, 441
Mitchell, S. A. See Kuhn, N. J.
Moody, R. V. and Patera, J., Fast recursion formula for weight multiplicities, 7, 237
Moschovakis, Yiannis N. See Martin, Donald A.
Mueller, C. See Goldberg, S. I.

Packer, Judith, On the normalizer of certain subalgebras of group-measure factors, 7, 397
Pardon, William. See Hsiang, W.-C.
Parshall, Brian. See Friedlander, Eric M.
Patera, J. See Moody, R. V.
Priddy, S. B. See Kuhn, N. J.
Rauch, Jeffrey and Reed. Michae.. A general regularity theorem for semilinear hyperbolic waves in one space dimension, 6, 445
Reed, Michael. See Rauch, Jeffrey
Roche, Claude Andre, Real relative cohomology of finite-codimension germs, 7, 596
Rothenberg, Mel. See Madsen, Ib
Scott, Leonard L. See Avrunin, George S.
Shelah, Saharon. See Harrington, Leo
Shiffman, Bernard, New defect relations for meromorphic functions on $\mathrm{C}^{\boldsymbol{n}}, \mathbf{7 , 5 9 9}$
Simon, Barry. See Avron, Joseph
Sloane, N. J. A. See Conway, J. H.
Steel, John R. See Martin, Donald A.
Stein, E. M. Set Geller, D.
Voiculescu, Dan. See Apostol, Constantin
Watanabe, Kei-ichi. See Kac, Victor
Weinstein, Alan and Zelditch, Steven, Singularties of solutions of some Schrödinger equations of $\mathrm{R}^{n}, 6,449$
Zelditch, Steven. See Weinstein, Alan

## BOOK REVIEWS

Askey, Richard, Polylogarithms and associated functions by Leonard Lewin, 6, 248
Aupetit, Bernard. See Grabiner, Sandy
Bak, Anthony. See Ranicki, Andrew A.
Bart, H. See Helton, J. William
Beem, John K. See Galloway, Gregory J.
Berman, Abraham. See Johnson, Charles R.
Berndt, Bruce C. and Evans, Ronald J., Corrigendum to "The determination of Gauss sums", 7, 441
Blocker, H. I. See Zassenhaus, Hans
Brewer, James W. See Zassenhaus, Hans
Brezis, Haim, An introduction to variational inequalities and their applications by David Kinderlehrer and Guido Stampacchia, 7, 622
Carlson, David H., Circulant matrices by Philip J. Davis, 7, 421
Cauchy, Augustin Louis. See Waterhouse, William C.
Cohen, Joel E., The geometry of biological time by Arthur T. Winfree, 7, 280
Cole, J. D. See O'Malley, R. E., Jr.
Connell, Edwin H. See Bass, Hyman
Davis, Philip J. See Carlson, David H.
Dick, Auguste. See Zassenhaus, Hans
Dieudonné, Jean. See Doran, R. S.
Dollard, John D. See Freedman, Michael A.
Doran, R. S., History of functional analysis by Jean Dieudonné, 7, 403
Dreben, Burton. See Gurevich, Yuri
Dubois, Didier. See Manes, E. G.
Duistermaat, J., Pseudodifferential operators by Michael E. Taylor, 7, 277
Ehrlich, Paul E. See Galloway, Gregory J.
Evans, Ronald J. See Berndt, Bruce C.
Faris, William G., Operator methods in quantum mechanics by Maring Schechter, 6, 105
Faudree, Ralph, Ramsey theory by Ronald L. Graham, Bruce L. Rothschild and Joel H. Spencer, 6, 113
Fleming, Wendell H., Stochastic filtering theory by G. Kallianpur, 7, 411
Freedman, Michael A., Product integration by John D. Dollard and Charles N. Friedman, 6, 230

Freedman, Michael A., Corrigendum to "Review of product integration" by John D. Dollard and Charles N. Friedman, 7, 440
Friedman, Charles N. See Freedman, Michael A.
Galloway, Gregory J., Global Lorentzian geometry by John K. Beem and Paul E. Ehrlich, 7 423
Geller, Susan C., Introduction to algebraic K-theory by John R. Silvester, 7, 616
Gohberg, I. See Helton, J. William
Goldfarb, Warren D. See Gurevich, Yuri
Goldstine, Herman H. See Pollard, Harry
Grabiner, Judith V. See Waterhouse, William C.
Grabiner, Sandy, Properiétés spectrales des algèbres de Banach by Bernard Aupetit, 7, 628
Graham, Colin C. See Herz, Carl
Graham, Ronald L. See Faudree, Ralph
Grateli, Oli. See Sakai, Shôichirô
Grattan-Guinness, I., The tragicomical history of thermodynamics 1822-1854 by C. Truesdell, 7, 640
Gurevich, Yuri, The decision problem: Solvable classes of quantificational formulas by Burton Dreben and Warren D. Goldfarb; Unsolvable classes of quantificational formulas by Harry R. Lewis, 7, 273
Hazewinkel, Michiel. See Waterhouse, William C.
Helton, J. William, Minimal factorization of matrix and operator functions by H. Bart, I. Gohberg and M. A. Kaashoek, 6, 235
Hermann, Robert. See Givens, Clark R.
Hermann, Robert. See Millman, Richard S.
Herz, Carl, Essays in commutative harmonic analysis, by Colin C. Graham and O. Carruth McGehee, 7, 422
Isbell, John, Combinatorial algebraic and topological representations of groups, semigroups and categories by Ales Pultr and Věra Trnková, 6, 118
Jarchow, H. See Retherford, James R.
Jerome, Joseph W., Spline functions: Basic theory by Larry L. Schumaker, 6, 238
Johnson, Charles R., Nonnegative matrices in the mathematical sciences by Abraham Berman and Robert J. Plemmons, 6, 233
Kaashoek, M. A. See Helton, J. William
Kallianpur, G. See Fleming, Wendell H.
Kevorkian, J. See O'Malley, R. E. Jr.
Kinderlehrer, David. See Brezis, Haim
Kreith, Kurt, Spectral theory of ordinary differential operators by Erich Müller-Pfeiffer, 6, 116
Lakshmikantham, V., Operator inequalities by Johann Schröder, 7, 409
Lewin, Leonard. See Askey, Richard
Lewis, Harry R. See Gurevich, Yuri
Manes, E. G., Fuzzy sets and systems: Theory and applications by Didier Dubois and Henri Prade, 7, 603
McArthur, Charles W., Bases in Banach spaces. II by Ivan Singer, 6, 478
McGehee, O. Carruth. See Herz, Carl
Millman, Richard S., and Givens, Clark R., Cartanian geometry, nonlinear waves, and control theory by Robert Hermann, 6, 467
Miranker, Willard L. See Shampine, L. F.
Müller-Pfeiffer, Erich. See Kreith, Kurt
Nayfeh, Ali Hasan. See O'Malley, R. E., Jr.
O'Malley, R. E., Jr., Perturbation methods in applied mathematics by J. Kevorkian and J. D. Cole: Introduction to perturbation techniques by Ali Hasan Nayfeh, 7, 414
Plemmons, Robert J. See Johnson, Charles R.
Pollard, Harry, A history of the calculus of variations from the 17 th through the 19th century by Herman H. Goldstine, 6, 120
Prade, Henri, See Manes, E. G.

Pultr, Ales. See Isbell, John
Ranicki, Andrew A., K-theory of forms by Anthony Bak, 7, 279
Retherford, James R., Locally convex spaces by H. Jarchow; Modern methods in topological vector spaces by Albert Wilansky, 7, 612
Retherford, James R. See Wilansky, Albert
Robinson, Derek W. See Sakai, Shôichirô
Rothschild, Bruce L. See Faudree, Ralph
Sakai, Shôichirô, Operator algebras and quantum statistical mechanics, Vols. I and II by Ola Grateli and Derek W. Robinson, 7, 425
Sattinger, D. H. See Thomas, J. W.
Schechter, Martin. See Faris, William G.
Schmidt, Wolfgang M., The Hardy-Littlewood method by R. C. Vaughan, 7, 433
Schröder, Johann. See Lakshmikantham, V.
Schumaker, Larry L. See Jerome, Joseph W.
Shampine, L. F., Numerical methods for stiff equations and singular perturbation problems by Willard L. Miranker, 7, 638
Silvester, John R. See Geller, Susan C.
Singer, Ivan. See McArthur, Charles W.
Smith, Martha K. See Zassenhaus, Hans
Spencer, Joel H. See Faudree, Ralph
Stampacchia, Guido. See Brezis, Haim
Taylor, Michael E. See Duistermaat, J.
Thomas, J. W., Group theoretic methods in bifurcation theory by D. H. Sattinger, 7, 437
Trnková, Věra. See Isbell, John
Truesdell, C. See Grattan-Guinness, I.
Vaughan, R. C. See Schmidt, Wolfgang M.
Waterhouse, William C., Formal groups and applications by Michiel Hazewinkel, 6, 109
Waterhouse, William C., The origins of Cauchy's rigorous calculus by Judith V. Grabiner; Equations différentielles ordinaires: Ordinary differential equations by Augustin Louis Cauchy, 7, 634
Winfree, Arthur T. See Cohen, Joel E.
Zassenhaus, Hans, Emmy Noether, 1882-1935 by Auguste Dick, translated by H. I. Blocker, 6, 224
Zassenhaus, Hans, Emmy Noether, a tribute to her life and work edited by James W. Brewer and Martha K. Smith, 7, 618

