

- Vol. 521: G. Cherlin, *Model Theoretic Algebra – Selected Topics*. IV, 234 pages. 1976.
- Vol. 522: C. O. Bloom and N. D. Kazarihoff, *Short Wave Radiation Problems in Inhomogeneous Media: Asymptotic Solutions*. V. 104 pages. 1976.
- Vol. 523: S. A. Albeverio and R. J. Heegh-Krohn, *Mathematical Theory of Feynman Path Integrals*. IV, 139 pages. 1976.
- Vol. 524: Séminaire Pierre Lelong (Analyse) Année 1974/75. Edité par P. Lelong. V, 222 pages. 1976.
- Vol. 525: *Structural Stability, the Theory of Catastrophes, and Applications in the Sciences. Proceedings 1975*. Edited by P. Hilton. VI, 408 pages. 1976.
- Vol. 526: *Probability in Banach Spaces. Proceedings 1975*. Edited by A. Beck. VI, 290 pages. 1976.
- Vol. 527: M. Denker, Ch. Grillenberger, and K. Sigmund, *Ergodic Theory on Compact Spaces*. IV, 360 pages. 1976.
- Vol. 528: J. E. Humphreys, *Ordinary and Modular Representations of Chevalley Groups*. III, 127 pages. 1976.
- Vol. 529: J. Grandell, *Doubly Stochastic Poisson Processes*. X, 234 pages. 1976.
- Vol. 530: S. S. Gelbart, *Weil's Representation and the Spectrum of the Metaplectic Group*. VII, 140 pages. 1976.
- Vol. 531: Y.-C. Wong, *The Topology of Uniform Convergence on Order-Bounded Sets*. VI, 163 pages. 1976.
- Vol. 532: *Théorie Ergodique. Proceedings 1973/1974*. Edité par J.-P. Conze and M. S. Keane. VIII, 227 pages. 1976.
- Vol. 533: F. R. Cohen, T. J. Lada, and J. P. May, *The Homology of Iterated Loop Spaces*. IX, 490 pages. 1976.
- Vol. 534: C. Preston, *Random Fields*. V, 200 pages. 1976.
- Vol. 535: *Singularités d'Applications Différentiables. Plans-sur-Bex*. 1975. Edité par O. Burlet et F. Ronga. V, 253 pages. 1976.
- Vol. 536: W. M. Schmidt, *Equations over Finite Fields. An Elementary Approach*. IX, 267 pages. 1976.
- Vol. 537: *Set Theory and Hierarchy Theory*. Bierutowice, Poland 1975. A Memorial Tribute to Andrzej Mostowski. Edited by W. Marek, M. Srebrny and A. Zarach. XIII, 345 pages. 1976.
- Vol. 538: G. Fischer, *Complex Analytic Geometry*. VII, 201 pages. 1976.
- Vol. 539: A. Badrikian, J. F. C. Kingman et J. Kuelbs, *Ecole d'Eté de Probabilités de Saint Flour V-1975*. Edité par P.-L. Hennequin. IX, 314 pages. 1976.
- Vol. 540: *Categorical Topology, Proceedings 1975*. Edited by E. Bizn and H. Herrlich. XV, 719 pages. 1976.
- Vol. 541: *Measure Theory, Oberwolfach 1975. Proceedings*. Edited by A. Bellow and D. Kölzow. XIV, 430 pages. 1976.
- Vol. 542: D. A. Edwards and H. M. Hastings, *Čech and Steenrod Homotopy Theories with Applications to Geometric Topology*. VII, 296 pages. 1976.
- Vol. 543: *Nonlinear Operators and the Calculus of Variations, Bruxelles 1975*. Edited by J. P. Gossez, E. J. Lami Dozo, J. Mawhin, and L. Waëlbroeck, VII, 237 pages. 1976.
- Vol. 544: Robert P. Langlands, *On the Functional Equations Satisfied by Eisenstein Series*. VII, 337 pages. 1976.
- Vol. 545: *Noncommutative Ring Theory. Kent State 1975*. Edited by J. H. Cozzens and F. L. Sandomierski. V, 212 pages. 1976.
- Vol. 546: K. Mahler, *Lectures on Transcendental Numbers*. Edited and Completed by B. Diviš and W. J. Le Veque. XXI, 254 pages. 1976.
- Vol. 547: A. Mukherjea and N. A. Tserpes, *Measures on Topological Semigroups: Convolution Products and Random Walks*. V, 197 pages. 1976.
- Vol. 548: D. A. Hejhal, *The Selberg Trace Formula for PSL(2, IR)*. Volume I. VI, 516 pages. 1976.
- Vol. 549: *Brauer Groups, Evanston 1975. Proceedings*. Edited by D. Zelinsky. V, 187 pages. 1976.
- Vol. 550: *Proceedings of the Third Japan – USSR Symposium on Probability Theory*. Edited by G. Maruyama and J. V. Prokhorov. VI, 722 pages. 1976.
- Vol. 551: *Algebraic K-Theory, Evanston 1976. Proceedings*. Edited by M. R. Stein. XI, 409 pages. 1976.
- Vol. 552: C. G. Gibson, K. Wirthmüller, A. A. du Plessis and E. J. N. Looijenga, *Topological Stability of Smooth Mappings*. V, 155 pages. 1976.
- Vol. 553: M. Petrich, *Categories of Algebraic Systems. Vector and Projective Spaces, Semigroups, Rings and Lattices*. VIII, 217 pages. 1976.
- Vol. 554: J. D. H. Smith, *Mal'cev Varieties*. VIII, 158 pages. 1976.
- Vol. 555: M. Ishida, *The Genus Fields of Algebraic Number Fields*. VII, 116 pages. 1976.
- Vol. 556: *Approximation Theory, Bonn 1976. Proceedings*. Edited by R. Schaback and K. Scherer. VII, 466 pages. 1976.
- Vol. 557: W. Iberkleid and T. Petrie, *Smooth S^1 Manifolds*. III, 163 pages. 1976.
- Vol. 558: B. Weisfeiler, *On Construction and Identification of Graphs*. XIV, 237 pages. 1976.
- Vol. 559: J.-P. Caubet, *Le Mouvement Brownien Relativiste*. IX, 212 pages. 1976.
- Vol. 560: *Combinatorial Mathematics, IV, Proceedings 1975*. Edited by L. R. A. Casse and W. D. Wallis. VII, 249 pages. 1976.
- Vol. 561: *Function Theoretic Methods for Partial Differential Equations. Darmstadt 1976. Proceedings*. Edited by V. E. Meister, N. Weck and W. L. Wendland. XVIII, 520 pages. 1976.
- Vol. 562: R. W. Goodman, *Nilpotent Lie Groups: Structure and Applications to Analysis*. X, 210 pages. 1976.
- Vol. 563: *Séminaire de Théorie du Potentiel, Paris, No. 2. Proceedings 1975–1976*. Edited by F. Hirsch and G. Mokobodzki. VI, 292 pages. 1976.
- Vol. 564: *Ordinary and Partial Differential Equations, Dundee 1976. Proceedings*. Edited by W. N. Everitt and B. D. Sleeman. XVIII, 551 pages. 1976.
- Vol. 565: *Turbulence and Navier Stokes Equations. Proceedings 1975*. Edited by R. Temam. IX, 194 pages. 1976.
- Vol. 566: *Empirical Distributions and Processes, Oberwolfach 1976. Proceedings*. Edited by P. Gaenssler and P. Révész. VII, 146 pages. 1976.
- Vol. 567: *Séminaire Bourbaki vol. 1975/76. Exposés 471–488*. IV, 303 pages. 1977.
- Vol. 568: R. E. Gaines and J. L. Mawhin, *Coincidence Degree, and Nonlinear Differential Equations*. V, 262 pages. 1977.
- Vol. 569: *Cohomologie Etale SGA 4½, Séminaire de Géométrie Algébrique du Bois-Marie*. Edité par P. Deligne. V, 312 pages. 1977.
- Vol. 570: *Differential Geometrical Methods in Mathematical Physics, Bonn 1975. Proceedings*. Edited by K. Bleuler and A. Reetz. VIII, 576 pages. 1977.
- Vol. 571: *Constructive Theory of Functions of Several Variables, Oberwolfach 1976. Proceedings*. Edited by W. Schempp and K. Zeller. VI, 290 pages. 1977.
- Vol. 572: *Sparse Matrix Techniques, Copenhagen 1976*. Edited by V. A. Barker. V, 184 pages. 1977.
- Vol. 573: *Group Theory, Canberra 1975. Proceedings*. Edited by R. A. Bryce, J. Cossey and M. F. Newman. VII, 146 pages. 1977.
- Vol. 574: J. Moldestad, *Computations in Higher Types*. IV, 203 pages. 1977.
- Vol. 575: *K-Theory and Operator Algebras, Athens, Georgia 1975*. Edited by B. B. Morrel and I. M. Singer. VI, 191 pages. 1977.
- Vol. 576: V. S. Varadarajan, *Harmonic Analysis on Real Reductive Groups*. VI, 521 pages. 1977.
- Vol. 577: J. P. May, *E_∞ Ring Spaces and E_∞ Ring Spectra*. IV, 268 pages. 1977.
- Vol. 578: *Séminaire Pierre Lelong (Analyse) Année 1975/76*. Edité par P. Lelong. VI, 327 pages. 1977.
- Vol. 579: *Combinatoire et Représentation du Groupe Symétrique, Strasbourg 1976. Proceedings 1976*. Edité par D. Foata. IV, 339 pages. 1977.

- Vol. 580: C. Castaing and M. Valadier, *Convex Analysis and Measurable Multifunctions*. VIII, 278 pages. 1977.
- Vol. 581: *Séminaire de Probabilités XI, Université de Strasbourg. Proceedings 1975/1976*. Edité par C. Dellacherie, P. A. Meyer et M. Weil. VI, 574 pages. 1977.
- Vol. 582: J. M. G. Fell, *Induced Representations and Banach *-Algebraic Bundles*. IV, 349 pages. 1977.
- Vol. 583: W. Hirsch, C. C. Pugh and M. Shub, *Invariant Manifolds*. IV, 149 pages. 1977.
- Vol. 584: C. Brezinski, *Accélération de la Convergence en Analyse Numérique*. IV, 313 pages. 1977.
- Vol. 585: T. A. Springer, *Invariant Theory*. VI, 112 pages. 1977.
- Vol. 586: *Séminaire d'Algèbre Paul Dubreil, Paris 1975-1976 (29ème Année)*. Edited by M. P. Malliavin. VI, 188 pages. 1977.
- Vol. 587: *Non-Commutative Harmonic Analysis. Proceedings 1976*. Edited by J. Carmona and M. Vergne. IV, 240 pages. 1977.
- Vol. 588: P. Molino, *Théorie des G-Structures: Le Problème d'Équivalence*. VI, 163 pages. 1977.
- Vol. 589: *Cohomologie l-adique et Fonctions L. Séminaire de Géométrie Algébrique du Bois-Marie 1965-66, SGA 5*. Edité par L. Illusie. XII, 484 pages. 1977.
- Vol. 590: H. Matsumoto, *Analyse Harmonique dans les Systèmes de Tits Bornologiques de Type Affine*. IV, 219 pages. 1977.
- Vol. 591: G. A. Anderson, *Surgery with Coefficients*. VIII, 157 pages. 1977.
- Vol. 592: D. Voigt, *Induzierte Darstellungen in der Theorie der endlichen, algebraischen Gruppen*. V, 413 Seiten. 1977.
- Vol. 593: K. Barbey and H. König, *Abstract Analytic Function Theory and Hardy Algebras*. VIII, 260 pages. 1977.
- Vol. 594: *Singular Perturbations and Boundary Layer Theory, Lyon 1976*. Edited by C. M. Brauner, B. Gay, and J. Mathieu. VIII, 539 pages. 1977.
- Vol. 595: W. Hazod, *Stetige Faltungshalbgruppen von Wahrscheinlichkeitsmaßen und erzeugende Distributionen*. XIII, 157 Seiten. 1977.
- Vol. 596: K. Deimling, *Ordinary Differential Equations in Banach Spaces*. VI, 137 pages. 1977.
- Vol. 597: *Geometry and Topology, Rio de Janeiro, July 1976. Proceedings*. Edited by J. Palis and M. do Carmo. VI, 866 pages. 1977.
- Vol. 598: J. Hoffmann-Jørgensen, T. M. Liggett et J. Neveu, *Ecole d'Été de Probabilités de Saint-Flour VI - 1976*. Edité par P.-L. Hennequin. XII, 447 pages. 1977.
- Vol. 599: *Complex Analysis, Kentucky 1976. Proceedings*. Edited by J. D. Buckholtz and T. J. Suffridge. X, 159 pages. 1977.
- Vol. 600: W. Stoll, *Value Distribution on Parabolic Spaces*. VIII, 216 pages. 1977.
- Vol. 601: *Modular Functions of one Variable V, Bonn 1976. Proceedings*. Edited by J.-P. Serre and D. B. Zagier. VI, 294 pages. 1977.
- Vol. 602: J. P. Brezin, *Harmonic Analysis on Compact Solvmanifolds*. VIII, 179 pages. 1977.
- Vol. 603: B. Moishezon, *Complex Surfaces and Connected Sums of Complex Projective Planes*. IV, 234 pages. 1977.
- Vol. 604: *Banach Spaces of Analytic Functions, Kent, Ohio 1976. Proceedings*. Edited by J. Baker, C. Cleaver and Joseph Diestel. VI, 141 pages. 1977.
- Vol. 605: Sario et al., *Classification Theory of Riemannian Manifolds*. XX, 498 pages. 1977.
- Vol. 606: *Mathematical Aspects of Finite Element Methods. Proceedings 1975*. Edited by I. Galligani and E. Magenes. VI, 362 pages. 1977.
- Vol. 607: M. Métivier, *Reelle und Vektorwertige Quasimartingale und die Theorie der Stochastischen Integration*. X, 310 Seiten. 1977.
- Vol. 608: Bigard et al., *Groupes et Anneaux Réticulés*. XIV, 334 pages. 1977.
- Vol. 609: *General Topology and Its Relations to Modern Analysis and Algebra IV. Proceedings 1976*. Edited by J. Novák. XVIII, 225 pages. 1977.
- Vol. 610: G. Jensen, *Higher Order Contact of Submanifolds of Homogeneous Spaces*. XII, 154 pages. 1977.
- Vol. 611: M. Makkai and G. E. Reyes, *First Order Categorical Logic*. VIII, 301 pages. 1977.
- Vol. 612: E. M. Kleinberg, *Infinitary Combinatorics and the Axiom of Determinateness*. VIII, 150 pages. 1977.
- Vol. 613: E. Behrends et al., *L^p-Structure in Real Banach Spaces*. X, 108 pages. 1977.
- Vol. 614: H. Yanagihara, *Theory of Hopf Algebras Attached to Group Schemes*. VIII, 308 pages. 1977.
- Vol. 615: *Turbulence Seminar, Proceedings 1976/77*. Edited by P. Bernard and T. Ratiu. VI, 155 pages. 1977.
- Vol. 616: *Abelian Group Theory, 2nd New Mexico State University Conference, 1976. Proceedings*. Edited by D. Arnold, R. Hunter and E. Walker. X, 423 pages. 1977.
- Vol. 617: K. J. Devlin, *The Axiom of Constructibility: A Guide for the Mathematician*. VIII, 96 pages. 1977.
- Vol. 618: I. I. Hirschman, Jr. and D. E. Hughes, *Extreme Eigen Values of Toeplitz Operators*. VI, 145 pages. 1977.
- Vol. 619: *Set Theory and Hierarchy Theory V, Bierutowice 1976*. Edited by A. Lachlan, M. Srebrny, and A. Zarach. VIII, 358 pages. 1977.
- Vol. 620: H. Popp, *Moduli Theory and Classification Theory of Algebraic Varieties*. VIII, 189 pages. 1977.
- Vol. 621: Kauffman et al., *The Deficiency Index Problem*. VI, 112 pages. 1977.
- Vol. 622: *Combinatorial Mathematics V, Melbourne 1976. Proceedings*. Edited by C. Little. VIII, 213 pages. 1977.
- Vol. 623: I. Erdelyi and R. Lange, *Spectral Decompositions on Banach Spaces*. VIII, 122 pages. 1977.
- Vol. 624: Y. Guivarc'h et al., *Marches Aléatoires sur les Groupes de Lie*. VIII, 292 pages. 1977.
- Vol. 625: J. P. Alexander et al., *Odd Order Group Actions and Witt Classification of Innerproducts*. IV, 202 pages. 1977.
- Vol. 626: *Number Theory Day, New York 1976. Proceedings*. Edited by M. B. Nathanson. VI, 241 pages. 1977.
- Vol. 627: *Modular Functions of One Variable VI, Bonn 1976. Proceedings*. Edited by J.-P. Serre and D. B. Zagier. VI, 339 pages. 1977.
- Vol. 628: H. J. Baues, *Obstruction Theory on the Homotopy Classification of Maps*. XII, 387 pages. 1977.
- Vol. 629: W. A. Coppel, *Dichotomies in Stability Theory*. VI, 98 pages. 1978.
- Vol. 630: *Numerical Analysis, Proceedings, Biennial Conference, Dundee 1977*. Edited by G. A. Watson. XII, 199 pages. 1978.
- Vol. 631: *Numerical Treatment of Differential Equations. Proceedings 1976*. Edited by R. Bulirsch, R. D. Grigorieff, and J. Schröder. X, 219 pages. 1978.
- Vol. 632: J.-F. Boutot, *Schéma de Picard Local*. X, 165 pages. 1978.
- Vol. 633: N. R. Coleff and M. E. Herrera, *Les Courants Résiduels Associés à une Forme Méromorphe*. X, 211 pages. 1978.
- Vol. 634: H. Kurke et al., *Die Approximationseigenschaft lokaler Ringe*. IV, 204 Seiten. 1978.
- Vol. 635: T. Y. Lam, *Serre's Conjecture*. XVI, 227 pages. 1978.
- Vol. 636: *Journées de Statistique des Processus Stochastiques, Grenoble 1977, Proceedings*. Edité par Didier Dacunha-Castelle et Bernard Van Cutsem. VII, 202 pages. 1978.
- Vol. 637: W. B. Jurkat, *Meromorphe Differentialgleichungen*. VII, 194 Seiten. 1978.
- Vol. 638: P. Shanahan, *The Atiyah-Singer Index Theorem, An Introduction*. V, 224 pages. 1978.
- Vol. 639: N. Adasch et al., *Topological Vector Spaces*. V, 125 pages. 1978.

- Vol. 640: J. L. Dupont, Curvature and Characteristic Classes. X, 175 pages. 1978.
- Vol. 641: Séminaire d'Algèbre Paul Dubreil, Proceedings Paris 1976-1977. Edité par M. P. Malliavin. IV, 367 pages. 1978.
- Vol. 642: Theory and Applications of Graphs, Proceedings, Michigan 1978. Edited by Y. Alavi and D. R. Lick. XIV, 635 pages. 1978.
- Vol. 643: M. Davis, Multiaxial Actions on Manifolds. VI, 141 pages. 1978.
- Vol. 644: Vector Space Measures and Applications I, Proceedings 1977. Edited by R. M. Aron and S. Dineen. VIII, 451 pages. 1978.
- Vol. 645: Vector Space Measures and Applications II, Proceedings 1977. Edited by R. M. Aron and S. Dineen. VIII, 218 pages. 1978.
- Vol. 646: O. Tammi, Extremum Problems for Bounded Univalent Functions. VIII, 313 pages. 1978.
- Vol. 647: L. J. Ratliff, Jr., Chain Conjectures in Ring Theory. VIII, 133 pages. 1978.
- Vol. 648: Nonlinear Partial Differential Equations and Applications, Proceedings, Indiana 1976-1977. Edited by J. M. Chadam. VI, 206 pages. 1978.
- Vol. 649: Séminaire de Probabilités XII, Proceedings, Strasbourg, 1976-1977. Edité par C. Dellacherie, P. A. Meyer et M. Weil. VIII, 805 pages. 1978.
- Vol. 650: C*-Algebras and Applications to Physics. Proceedings 1977. Edited by R. V. Kadison. V, 192 pages. 1978.
- Vol. 651: P. W. Michor, Functors and Categories of Banach Spaces. VI, 99 pages. 1978.
- Vol. 652: Differential Topology, Foliations and Gelfand-Fuks-Cohomology, Proceedings 1976. Edited by P. A. Schweitzer. XIV, 252 pages. 1978.
- Vol. 653: Locally Interacting Systems and Their Application in Biology. Proceedings, 1976. Edited by R. L. Dobrushin, V. I. Kryukov and A. L. Toom. XI, 202 pages. 1978.
- Vol. 654: J. P. Buhler, Icosahedral Galois Representations. III, 143 pages. 1978.
- Vol. 655: R. Baeza, Quadratic Forms Over Semilocal Rings. VI, 199 pages. 1978.
- Vol. 656: Probability Theory on Vector Spaces. Proceedings, 1977. Edited by A. Weron. VIII, 274 pages. 1978.
- Vol. 657: Geometric Applications of Homotopy Theory I, Proceedings 1977. Edited by M. G. Barratt and M. E. Mahowald. VIII, 459 pages. 1978.
- Vol. 658: Geometric Applications of Homotopy Theory II, Proceedings 1977. Edited by M. G. Barratt and M. E. Mahowald. VIII, 487 pages. 1978.
- Vol. 659: Bruckner, Differentiation of Real Functions. X, 247 pages. 1978.
- Vol. 660: Equations aux Dérivée Partielles. Proceedings, 1977. Edité par Pham The Lai. VI, 216 pages. 1978.
- Vol. 661: P. T. Johnstone, R. Paré, R. D. Rosebrugh, D. Schumacher, R. J. Wood, and G. C. Wraith, Indexed Categories and Their Applications. VII, 260 pages. 1978.
- Vol. 662: Akin, The Metric Theory of Banach Manifolds. XIX, 306 pages. 1978.
- Vol. 663: J. F. Berglund, H. D. Junghenn, P. Milnes, Compact Right Topological Semigroups and Generalizations of Almost Periodicity. X, 243 pages. 1978.
- Vol. 664: Algebraic and Geometric Topology, Proceedings, 1977. Edited by K. C. Millett. XI, 240 pages. 1978.
- Vol. 665: Journées d'Analyse Non Linéaire. Proceedings, 1977. Edité par P. Bénéilan et J. Robert. VIII, 256 pages. 1978.
- Vol. 666: B. Beauzamy, Espaces d'Interpolation Réels: Topologie et Géométrie. X, 104 pages. 1978.
- Vol. 667: J. Gilewicz, Approximants de Padé. XIV, 511 pages. 1978.
- Vol. 668: The Structure of Attractors in Dynamical Systems. Proceedings, 1977. Edited by J. C. Martin, N. G. Markley and W. Perizzo. VI, 264 pages. 1978.
- Vol. 669: Higher Set Theory. Proceedings, 1977. Edited by G. H. Müller and D. S. Scott. XII, 478 pages. 1978.
- Vol. 670: Fonctions de Plusieurs Variables Complexes III, Proceedings, 1977. Edité par F. Norguet. XII, 394 pages. 1978.
- Vol. 671: R. T. Smythe and J. C. Wierman, First-Passage Percolation on the Square Lattice. VIII, 196 pages. 1978.
- Vol. 672: R. L. Taylor, Stochastic Convergence of Weighted Sums of Random Elements in Linear Spaces. VII, 216 pages. 1978.
- Vol. 673: Algebraic Topology, Proceedings 1977. Edited by P. Hoffman, R. Piccinini and D. Sjerve. VI, 278 pages. 1978.
- Vol. 674: Z. Fiedorowicz and S. Priddy, Homology of Classical Groups Over Finite Fields and Their Associated Infinite Loop Spaces. VI, 434 pages. 1978.
- Vol. 675: J. Galambos and S. Kotz, Characterizations of Probability Distributions. VIII, 169 pages. 1978.
- Vol. 676: Differential Geometrical Methods in Mathematical Physics II, Proceedings, 1977. Edited by K. Bleuler, H. R. Petry and A. Reetz. VI, 626 pages. 1978.
- Vol. 677: Séminaire Bourbaki, vol. 1977/78, Exposés 489-506. VI, 284 pages. 1978.
- Vol. 678: D. Dacunha-Castelle, H. Heyer et B. Roynette. Ecole d'Eté de Probabilités de Saint-Flour. VII-1977. Edité par P. L. Hennequin. IX, 379 pages. 1978.