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Nota di contenuto	Preface; CONTENTS; On the Boundedness of $x_n+k=C+Z_{k-1}$ $i=0$ $(b_i x_n+i +a_i x_n+i)$ ; Abstract; 1 Introduction; 2 Equilibrium Solutions and Oscillation; 3 Asymptotic Behavior of Bounded Solutions; 4 Necessary

and Sufficient Conditions for Boundedness; 5 Final Remark; References; On the Integrability of "Generalized" Demand Functions; Abstract; 1 Introduction; 2 Setting up the Problem; 3 A first set of necessary conditions; 4 Mathematical integration; 5 Economic Integration; 6 The duality problem; References; The Com and Cotensor Functors for Coalgebras over Rings; 1 Introduction  
2 Notations and Preliminaries3 The Cotensor Functor; 4 The Com-Functor; 5 Relative injective comodules; References; Pseudo-Valuation Domains: A Survey; 1. INTRODUCTION; 2. PSEUDO-VALUATION DOMAINS; 3. OVERRINGS THAT ARE PSEUDO-VALUATION DOMAINS; 4. ATOMIC PSEUDO-VALUATION DOMAINS; 5. RELATED RESULTS; REFERENCES; GRP Schemes for Time-Dependent 2-D and Quasi 1-D Flows; ABSTRACT; 1. INTRODUCTION; 2. OUTLINE OF THE GRP METHOD; 3. THE GRP METHOD FOR TWO-DIMENSIONAL FLOW; 4. REFERENCES; Approximating Fixed Points of Lipschitzian Generalized Pseudo-Contractions; 1. Introduction  
2. Lipschitzian operators are generalized pseudo-contractions3. The fastest iteration; 4. Numerical examples; REFERENCES; Univalent Harmonic Mappings with Blaschke Dilatations; Abstract; 1. Introduction; 2. The generalized Riemann mapping theorem; 3. Univalent mappings with finite Blaschke dilations onto bounded domains; 4. Univalent harmonic mappings with Blaschke dilatations onto the exterior of a bounded domain; 5. Univalent harmonic mappings with Blaschke dilatations of periodic type; References.; Finite Dimensional Dynamics on Attractors; Abstract; 1 Introduction  
2 Dynamics on the Attractors of Parabolic Partial Differential Equations3 Dynamics on the Attractors of Hyperbolic Partial Differential Equations; 4 Appendix; 4.1 References; The Mathematics of Informational Asymmetry; Abstract; 1 Introduction; 2 Incentive-compatible contracts; 3 u-convex analysis; 4 The reallocation principle; 5 Optimization under incentive constraints; References; Recent Progress in the Theory of Generalized Closed Sets; 1 Introduction and Preliminaries; 2 Results; 3 Lower Separation Axioms; 4 Gp - closed Sets; 5 Sg - compact Spaces; 6 Concluding Remark; References  
Misconceptions in MathematicsAbstract; Introduction; Objectives; Hypothesis; Procedure and findings; Results; Recommendations.; References; On the Category-Theoretic Approach to Differential Geometry; Abstract; Introduction; 1 Why Cartesian Closed Categories and Infinitesimal Quantities?; 2 Calculus in a Cartesian Closed Category of Smooth Objects; 3 A Sketch of the Construction of Models; References; Twenty-One Characterizations of Genus Zero; Abstract; Introduction; 1 Basic properties of coh(C); 2 The characterization; 3 Algebraically closed base field; 4 Comments; References  
Some Recent Developments on the Hydrodynamic Limit of the Boltzmann Equation

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## Sommario/riassunto

This volume covers a wide range of areas in mathematics and mathematics education. There is emphasis on applied mathematics, including partial differential equations, dynamical systems, and difference equations. Other areas represented include algebra and number theory, statistics, and issues in mathematics education. The proceedings have been selected for coverage in: Index to Scientific & Technical Proceedings (ISTP CDROM version / ISI Proceedings). Contents: The Com and Cotensor Functors for Coalgebras Over Rings (K Al-Takhman); GRP Schemes for Time-Dependent 2-D and Quasi 1-D Flows (M B

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