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4.5. A New Direction: The Converse Statements Acknowledgment; References; 5. Multiplicity-Free Homogeneous Operators in the Cowen-Douglas Class A. Koranyi and G. Misra; 5.1. Background Material; 5.2. Computation of the Multipliers for the Unit Disc; 5.3. Conditions Imposed by the Reproducing Kernel; 5.4. The Multiplicity-Free Case; 5.5. Examples; References; 6. The Standard Conjectures on Algebraic Cycles M. S. Narasimhan; 6.1. The Case of Complex Projective Varieties; 6.2. Standard Conjectures in Abstract Algebraic Geometry; References 7. On the Classification of Binary Shifts on the Hyperfinite II₁ Factor G. L. Price 7.1. Introduction; 7.2. Preliminaries; 7.3. Bitstreams and Polynomials; 7.4. Counting Polynomials with Symmetry; 7.5. Conjugacy Classes of Binary Shifts; References; 8. Symmetric and Quasi-Symmetric Designs and Strongly Regular Graphs S. S. Sane; 8.1. Introduction and Preliminaries; 8.2. Symmetric Designs; 8.3. Strongly Regular Graphs; 8.4. Quasi-Symmetric Designs; Acknowledgments; References; 9. Perturbation Determinant, Krein's Shift Function and Index Theorem K. B. Sinha; 9.1. Introduction 9.2. Perturbation Determinant 9.3. Witten Index and Its Invariance; 9.4. Krein's Shift Function; 9.5. Application to Quantum Mechanics and Generalized Levinson's Theorem; References; 10. Zero Cycles and Complete Intersection Points on Algebraic Varieties V. Srinivas; References; 11. Root Numbers and Rational Points on Elliptic Curves R. Sujatha; 11.1. Elliptic Curves and the Birch and Swinnerton-Dyer Conjecture; 11.2. Congruent Number Problem; 11.3. Root Numbers and the Parity Conjecture; 11.4. Recent Results; 11.5. Examples and Applications; References 12. von Neumann Algebras and Ergodic Theory V. S. Sunder

Sommario/riassunto

This book presents a collection of invited articles by distinguished Mathematicians on the occasion of the Platinum Jubilee Celebrations of the Indian Statistical Institute, during the year 2007. These articles provide a current perspective of different areas of research, emphasizing the major challenging issues. Given the very significant record of the Institute in research in the areas of Statistics, Probability and Mathematics, distinguished authors have very admirably responded to the invitation. Some of the articles are written keeping students and potential new entrants to an area of ma
