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Nota di contenuto	Contents; Foreword; Preface; 1. Use of Resultants and Approximate Roots for Doing the Jacobian Problem S. S. Abhyankar; 1.1. Introduction; 1.2. Basic Technique; 1.3. Resultants and Discriminants; 1.4. Real Numbers and Approximate Roots; Epilogue; References; 2. Monodromy of Principal Bundles I. Biswas and A. J. Parameswaran; 2.1. Introduction; 2.2. Tannakian Category; 2.3. A Tannakian Category for a Pointed Curve; 2.4. Monodromy of a Strongly Semistable Principal Bundles; 2.5. More on Monodromy; 2.6. Bundles on Higher Dimensional Varieties; References 3. Oligomorphic Permutation Groups P. J. Cameron3.1. Introduction; 3.1.1. Permutation groups; 3.1.2. Oligomorphic permutation groups; 3.1.3. Topology; 3.1.4. Cycle index; 3.2. Connections; 3.2.1. Model theory; 3.2.2. Combinatorial enumeration; 3.3. Constructions; 3.3.1. Direct and wreath products; 3.3.2. Other examples; 3.4. Growth Rates; 3.5. Graded Algebras; 3.6. Group Structure; References; 4. Descriptive Set Theory and the Geometry of Banach Spaces G. Godefroy; 4.1. Introduction; 4.2. A Short Survey on Analytic Sets; 4.3. Bossard's Coding of Separable Banach Spaces; 4.4. Coanalytic Ranks 4.5. A New Direction: The Converse StatementsAcknowledgment;

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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

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