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Nota di contenuto	""Contents""; ""Preface""; ""Differential Galois Theory of Algebraic Lie- Vessiot Systems""; ""1. Introduction""; ""2. Algebraic Groups and Homogeneous Spaces""; ""3. Differential Algebraic Geometry""; ""4. Galois theory of Algebraic Lie-Vessiot Systems""; ""5. Algebraic Reduction and Integration""; ""6. Integrability of Linear Equations""; ""Appendix A. Stalk formula for affine morphisms""; ""References""; ""Recent Trends on Two Variable Orthogonal Polynomials""; ""1. Introduction""; ""2. Algebraic properties of orthogonal polynomials in two variables"" ""3. Orthogonal polynomials in two variables and eigenfunctions of second order partial differential equations""""4. Extended definition of classical orthogonal polynomials in two variables""; ""5. Semiclassical orthogonal polynomials in two variables""; ""6. Sobolev orthogonal polynomials in several variables""; ""7. Open problems""; ""8. Acknowledgements""; ""References""; ""On the Integrability of the

Riccati Equation""; ""1. Introduction""; ""2. Symmetries to the one-parameter family of Riccati equations (1.2)""; ""3. Applications""; ""4. conclusions""; ""References""

""Two Discrete Systems of q-orthogonal Polynomials""""Like-hyperbolic Bloch-Bergman Classes""; ""1. Introduction""; ""2. Properties of $Bl_{\pm}^*A$ ""; ""3. Characterizations for $l_{\pm}$ -Bloch-Bergman classes""; ""4. Carleson and series characterization of $Bl_{\pm}^*A$ and $Bl_{\pm}^*A,0$ ""; ""5. Properties of $Bl_{\pm}^*A$ ""; ""References""; ""Some words about the application of Tchebycheff systems to Weak Hilbert's 16th Problem""; ""1. Hilbert's 16th and Weak Hilbert's 16th Problems""; ""2. Estimating the number of zeroes of an Abelian integral""; ""References""
