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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.

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