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Nota di contenuto	Contents -- Jairo Charris, The mathematician, The seminar -- Preface -- A reduction method for higher order variational equations of Hamiltonian systems -- A survey on integration of parabolic equations by reducing them to the heat equation -- 1. Introduction -- 2. Reduction by transformation (1.2) -- 3. Applications of Theorem 2.1 -- 4. Reduction by general equivalence transformation -- References -- Weil jets, Lie correspondences and applications -- Introduction -- 1. Jets of submanifolds -- 2. Lie correspondences between jet spaces -- 3. Prolongations and correspondences. -- 4. Characteristics, singular vector fields and correspondences -- 5. Symmetries and Lie correspondences -- 6. Projections, transversality and the process of reduction by symmetries -- Acknowledgments -- References -- Some applications of summability: An illustrated survey -- The structure of time and inertial forces in Lagrangian mechanics -- Introduction -- 0. Notations and definitions -- 1. Structure of a second order differential equation relative to a metric -- 2. Newton-

Lagrange mechanics of a free system -- 3. Constrained systems -- 4. The class of time and the calculus of variations -- 5. Time constraints -- 6. Modification caused by a time constraint in a free system -- 7. Linear constraints depending on time -- 8. Reference frames and inertial forces -- Acknowledgements. -- References -- Differential invariant algebras -- 1. Introduction. -- 2. Moving Frames and Differential Invariants. -- 3. Equivariant Moving Frames. -- 4. Recurrence. -- 5. Generating Invariants. -- 6. Differential Invariant Algebras of Pseudo-Groups. -- References -- The Stokes phenomenon for linear q -difference equations -- 1. Introduction -- 2. Some background -- 3. Some examples around the q -Euler equation -- References -- Finite Hamiltonian systems on phase space.
