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N	Nota di contenuto	Conformal Einstein Evolution Some Global Results for Asymptotically Simple Space-Times Black Holes Conformal Geometry, Differential Equations and Associated Transformations Twistor Geometry of Conformal Infinity Isotropic Cosmological Singularities Polyhomogeneous Expansions Close to Null and Spatial Infinity Asymptotically Flat and Regular Cauchy Data Construction of Hyperboloidal Initial Data Exploring the Conformal Constraint Equations Criteria for (In)finite Extent of Static Perfect Fluids Problems and Successes in the Numerical Approach to the Conformal Field Equations Some Aspects of the Numerical Treatment of the Conformal Field Equations Data for the Numerical Calculation of the Kruskal Space-Time Numerics of the Characteristic Formulation in Bondi Variables. Where We Are and What Lies Ahead Numerical Experiments at Null Infinity Local Characteristic Algorithms for Relativistic Hydrodynamics Simulations of Generic Singularities in Harmonic Coordinates Some Mathematical and Numerical Questions Connected with First and Second Order Time-Dependent Systems of Partial Differential Equations.
5	Sommario/riassunto	Causal relations, and with them the underlying null cone or conformal structure, form a basic ingredient in all general analytical studies of

asymptotically flat space-time. The present book reviews these aspects from the analytical, geometrical and numerical points of view. Care has been taken to present the material in a way that will also be accessible to postgraduate students and nonspecialist researchers from related fields.