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Nota di contenuto	Preface -- L.A. Caffarelli: The Monge-Ampère equation and Optimal Transportation, an elementary view -- G. Buttazzo, L. De Pascale: Optimal Shapes and Masses, and Optimal Transportation Problems -- C. Villani: Optimal Transportation, dissipative PDE's and functional inequalities -- Y. Brenier: Extended Monge-Kantorowich Theory -- L. Ambrosio, A. Pratelli: Existence and Stability results in the L1 Theory of Optimal Transportation.
Sommario/riassunto	Leading researchers in the field of Optimal Transportation, with

different views and perspectives, contribute to this Summer School volume: Monge-Ampère and Monge-Kantorovich theory, shape optimization and mass transportation are linked, among others, to applications in fluid mechanics granular material physics and statistical mechanics, emphasizing the attractiveness of the subject from both a theoretical and applied point of view. The volume is designed to become a guide to researchers willing to enter into this challenging and useful theory.
