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Nota di contenuto	Contents; Preface; 1. Introduction to problems on singularity analysis; 2. Singularity analysis for linear equations; 3. Singularity analysis for semilinear equations; 4. Propagation of singularities for fully nonlinear equations; 5. Propagation of strong singularities for nonlinear equations; 6. Formation of shocks for quasilinear hyperbolic equations; Appendix A Brief review on paradi erential operators; Bibliography
Sommario/riassunto	The book provides a comprehensive overview on the theory on analysis of singularities for partial differential equations (PDEs). It contains a summarization of the formation, development and main results on this topic. Some of the author's discoveries and original contributions are also included, such as the propagation of singularities of solutions to nonlinear equations, singularity index and formation of shocks.