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Nota di contenuto	Frontmatter -- Contents -- Introduction -- Notation -- List Of Nonlinear Equations -- 1. Nonlinear Capacity Method Of S. I. Pokhozhaev -- 2. Method Of Self-Similar Solutions Of V. A. Galaktionov -- 3. Method Of Test Functions In Combination With Method Of Nonlinear Capacity -- 4. Energy Method Of H. A. Levine -- 5. Energy Method Of G. Todorova -- 6. Energy Method Of S. I. Pokhozhaev -- 7. Energy Method Of V. K. Kalantarov And O. A. Ladyzhenskaya -- 8. Energy Method Of M. O. Korpusov And A. G. Sveshnikov -- 9. Nonlinear Schrödinger Equation -- 10. Variational Method Of L. E. Payne And D. H. Sattinger -- 11. Breaking Of Solutions Of Wave Equations -- A Auxiliary And Additional Results -- Bibliography -- Index
Sommario/riassunto	The present book carefully studies the blow-up phenomenon of solutions to partial differential equations, including many equations of mathematical physics. The included material is based on lectures read by the authors at the Lomonosov Moscow State University, and the book is addressed to a wide range of researchers and graduate students working in nonlinear partial differential equations, nonlinear functional analysis, and mathematical physics. Contents Nonlinear capacity method of S. I. Pokhozhaev Method of self-similar solutions of V. A. Galaktionov Method of test functions in combination with method of nonlinear capacity Energy method of H. A. Levine Energy method of G. Todorova Energy method of S. I. Pokhozhaev Energy method of V. K. Kalantarov and O. A. Ladyzhenskaya Energy method of M. O. Korpusov

and A. G. Sveshnikov Nonlinear Schrödinger equation Variational method
of L. E. Payne and D. H. Sattinger Breaking of solutions of wave
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