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1.

	Backlund transformations and nonlinear evolution equations (ABSTRACT); Nonlinear perturbations of systems of partial differential equations (ABSTRACT) Partial differential equations and cubature formulas (ABSTRACT) 2 Applications of functional-analytic and complex methods to mathematical physics ; Conservation laws for differential equations ; Applied quatemionic analysis. Maxwell's system and Dirac's equation Integral transforms method in the conjugation problems of electromagnetic fields
Sommario/riassunto	Functional analysis is not only a tool for unifying mathematical analysis, but it also provides the background for today's rapid development of the theory of partial differential equations. Using concepts of functional analysis, the field of complex analysis has developed methods (such as the theory of generalized analytic functions) for solving very general classes of partial differential equations. This book is aimed at promoting further interactions of functional analysis, partial differential equations, and complex analysis including its generalizations such as Clifford analysis. New int