1.	Record Nr.	UNINA9910299761603321
	Titolo	Current Trends in Analysis and Its Applications [[electronic resource]]: Proceedings of the 9th ISAAC Congress, Kraków 2013 / / edited by Vladimir V. Mityushev, Michael V. Ruzhansky
	Pubbl/distr/stampa	Cham:,: Springer International Publishing:,: Imprint: Birkhäuser,, 2015
	ISBN	3-319-12577-X
	Edizione	[1st ed. 2015.]
	Descrizione fisica	1 online resource (842 p.)
	Collana	Research Perspectives
	Disciplina	510 515.353 515.9 519
	Soggetti	Partial differential equations Functions of complex variables Applied mathematics Engineering mathematics Partial Differential Equations Functions of a Complex Variable Applications of Mathematics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	1) complex variables and potential theory 2) differential equations: complex and functional analytic methods, applications 3) methods for applied sciences 4) clifford and quaternion analysis 5) spaces of differentiable functions of several real variables and applications 6) generalized functions 7) qualitative properties of evolution models 8) nonlinear infinite dimensional evolutions and control theory with applications 9) nonlinear pde and fixed point theory, topological and geometrical methods of analysis 10) didactical approaches to mathematical thinking 11) integral transforms and reproducing kernels 12) pseudo-differential operators 13) toeplitz operators and their applications 4) approximation theory and fourier analysis 15) differential and difference equations with

Sommario/riassunto

applications -- 16) analytic methods in complex geometry -- 17) applications of queueing theory in modelling and performance evaluation of computer networks.

This book is a collection of papers from the 9th International ISAAC Congress held in 2013 in Kraków, Poland. The papers are devoted to recent results in mathematics, focused on analysis and a wide range of its applications. These include up-to-date findings of the following topics: - Differential Equations: Complex and Functional Analytic Methods - Nonlinear PDE - Qualitative Properties of Evolution Models -Differential and Difference Equations - Toeplitz Operators - Wavelet Theory - Topological and Geometrical Methods of Analysis - Queueing Theory and Performance Evaluation of Computer Networks - Clifford and Quaternion Analysis - Fixed Point Theory - M-Frame Constructions - Spaces of Differentiable Functions of Several Real Variables Generalized Functions - Analytic Methods in Complex Geometry -Topological and Geometrical Methods of Analysis - Integral Transforms and Reproducing Kernels - Didactical Approaches to Mathematical Thinking Their wide applications in biomathematics, mechanics, queueing models, scattering, geomechanics etc. are presented in a concise, but comprehensible way, such that further ramifications and future directions can be immediately seen. .