1. Record Nr.	UNINA9910300101503321
Titolo	Modern Problems in Applied Analysis / / edited by Piotr Dryga, Sergei Rogosin
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2018
ISBN	3-319-72640-4
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (223 pages)
Collana	Trends in Mathematics, , 2297-024X
Disciplina	515.9
Soggetti	Differential equations
	Functions, Special
	Functions of complex variables
	Integral equations
	Differential Equations
	Special Functions
	Functions of a Complex Variable
	Integral Equations
	Several Complex Variables and Analytic Spaces
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book features a collection of recent findings in Applied Real and Complex Analysis that were presented at the 3rd International Conference "Boundary Value Problems, Functional Equations and Applications" (BAF-3), held in Rzeszow, Poland on 20-23 April 2016. The contributions presented here develop a technique related to the scope of the workshop and touching on the fields of differential and functional equations, complex and real analysis, with a special emphasis on topics related to boundary value problems. Further, the papers discuss various applications of the technique, mainly in solid mechanics (crack propagation, conductivity of composite materials), biomechanics (viscoelastic behavior of the periodontal ligament, modeling of swarms) and fluid dynamics (Stokes and Brinkman type

flows, Hele-Shaw type flows). The book is addressed to all readers who are interested in the development and application of innovative research results that can help solve theoretical and real-world problems.