1.	Record Nr.	UNINA9910254073103321
	Autore	Gasiski Leszek
	Titolo	Exercises in Analysis : Part 2: Nonlinear Analysis / / by Leszek Gasiski, Nikolaos S. Papageorgiou
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
	ISBN	3-319-27817-7
	Edizione	[1st ed. 2016.]
	Descrizione fisica	1 online resource (VIII, 1062 p.)
	Collana	Problem Books in Mathematics, , 0941-3502
	Disciplina	515.7
	Soggetti	Functional analysis
		Measure theory
		Probabilities
		Topology
		Functional Analysis
		Measure and Integration
		Probability Theory and Stochastic Processes
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	1. Function Spaces -- 2. Nonlinear and Multivalued Maps -- 3. Smooth and Nonsmooth Calculus -- 4. Degree Theory. Fixed Point Theory -- 5. Variational and Topological Methods -- Index.
	Sommario/riassunto	This second of two Exercises in Analysis volumes covers problems in five core topics of mathematical analysis: Function Spaces, Nonlinear and Multivalued Maps, Smooth and Nonsmooth Calculus, Degree Theory and Fixed Point Theory, and Variational and Topological Methods. Each of five topics corresponds to a different chapter with inclusion of the basic theory and accompanying main definitions and results, followed by suitable comments and remarks for better understanding of the material. Exercises/problems are presented for each topic, with solutions available at the end of each chapter. The entire collection of exercises offers a balanced and useful picture for the application surrounding each topic. This nearly encyclopedic coverage of exercises in mathematical analysis is the first of its kind and is accessible to a wide readership. Graduate students will find the

collection of problems valuable in preparation for their preliminary or qualifying exams as well as for testing their deeper understanding of the material. Exercises are denoted by degree of difficulty. Instructors teaching courses that include one or all of the above-mentioned topics will find the exercises of great help in course preparation. Researchers in analysis may find this Work useful as a summary of analytic theories published in one accessible volume.