

1. Record Nr.	UNINA9910793592903321
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Titolo	Advanced functional analysis // Eberhard Malkowsky and Vadimir Rakocevic
Pubbl/distr/stampa	Boca Raton, Florida : , : CRC Press, , [2019]
ISBN	0-429-44259-9 0-429-80955-7 0-429-80954-9
Descrizione fisica	1 online resource (467 pages)
Disciplina	515.7
Soggetti	Functional analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fundamentals of linear and topological spaces -- Linear topological spaces -- Linear metric spaces -- Banach spaces -- Hilbert spaces -- Banach algebras -- Measures of noncompactness -- Fredholm theory -- Sequence spaces -- Fixed point theory.
Sommario/riassunto	Functional analysis and operator theory are widely used in the description, understanding and control of dynamical systems and natural processes in physics, chemistry, medicine and the engineering sciences. Advanced Functional Analysis is a self-contained and comprehensive reference for advanced functional analysis and can serve as a guide for related research. The book can be used as a textbook in advanced functional analysis, which is a modern and important field in mathematics, for graduate and postgraduate courses and seminars at universities. At the same time, it enables the interested readers to do their own research. Features Written in a concise and fluent style Covers a broad range of topics Includes related topics from research