

1. Record Nr.	UNINA9910822776103321
Autore	Krantz Steven G (Steven George), <1951->
Titolo	A guide to functional analysis // Steven G. Krantz, Washington University in St. Louis [[electronic resource]]
Pubbl/distr/stampa	Washington : , : Mathematical Association of America, , 2013
ISBN	1-61444-213-4
Descrizione fisica	1 online resource (xii, 137 pages) : digital, PDF file(s)
Collana	Dolciani Mathematical Expositions, ; v. 49 Dolciani mathematical expositions ; ; no. 49 MAA guides ; ; no. 9
Disciplina	515/.7
Soggetti	Functional analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 02 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fundamentals -- Ode to the dual space -- Hilbert space -- The algebra of operators -- Banach algebra basics -- Topological vector spaces -- Distributions -- Spectral theory -- Convexity -- Fixed-point theorems.
Sommario/riassunto	The purpose of A Guide to Functional Analysis is to introduce the reader with minimal background to the basic scripture of functional analysis. Readers should know some real analysis and some linear algebra. Measure theory rears its ugly head in some of the examples and also in the treatment of spectral theory. The latter is unavoidable and the former allows us to present a rich variety of examples. The nervous reader may safely skip any of the measure theory and still derive a lot from the rest of the book. Apart from this caveat, the book is almost completely self-contained; in a few instances we mention easily accessible references. A feature that sets this book apart from most other functional analysis texts is that it has a lot of examples and a lot of applications. This helps to make the material more concrete, and relates it to ideas that the reader has already seen. It also makes the book more accessible to a broader audience.