

1. Record Nr.	UNINA9910457200703321
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Titolo	Fast transform methods in digital signal processing [[electronic resource]] : theory, applications, efficient algorithms // by Leonid Yaroslavsky
Pubbl/distr/stampa	[Oak Park, Ill.?), : Bentham eBooks, [2011]
ISBN	1-60805-230-3
Descrizione fisica	1 online resource (119 p.)
Collana	Digital signal processing in experimental research, , 1879-4432
Disciplina	621.385
Soggetti	Signal processing - Digital techniques Electronic books.
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	pt. 1. Transform tour -- pt. 2. Applications and algorithms.
Sommario/riassunto	This ebook covers fast transform algorithms, analyses, and applications in a single volume. It is the result of the collaboration by the author with others in the world wide university community and has been accumulated over the author's working lifetime of about 40 years. It has now culminated in a nice mix of theoretical development and practical uses of various fast transforms. Thus readers will find practical approaches not covered elsewhere for the design and development of fast transform methods. Some of the most immediate applications, such as detection and analysis of periodicities in