

1. Record Nr.	UNISA996389858403316
Autore	Fane Francis, Sir, <d. 1689?>
Titolo	A pindarick ode on the sacred memory of our late Gracious Sovereign King Charles II [[electronic resource]] : to which is added, another essay on the same occasion, by Sir F.F. Knight of the Bath
Pubbl/distr/stampa	London, : Printed by J. Playford for Henry Playford ..., 1685
Descrizione fisica	[2], 9, [1] p
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Advertisement: p. [1] at end. Reproduction of original in the University of Illinois (Urbana-Champaign Campus). Library.
Sommario/riassunto	eebo-0167

2. Record Nr.	UNINA9910254073003321
Autore	Christensen Ole
Titolo	An Introduction to Frames and Riesz Bases / / by Ole Christensen
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2016
ISBN	3-319-25613-0
Edizione	[2nd ed. 2016.]
Descrizione fisica	1 online resource (XXV, 704 p. 17 illus., 5 illus. in color.)
Collana	Applied and Numerical Harmonic Analysis, , 2296-5009
Disciplina	515.63
Soggetti	Functional analysis Harmonic analysis Operator theory Signal processing Image processing Speech processing systems Functional Analysis Abstract Harmonic Analysis Operator Theory Signal, Image and Speech Processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Frames in Finite-dimensional Inner Product Spaces -- Infinite-dimensional Vector Spaces and Sequences -- Bases -- Bases and their Limitations -- Frames in Hilbert Spaces -- Tight Frames and Dual Frame Pairs -- Frames versus Riesz Bases -- Selected Topics in Frame Theory -- Frames of Translates -- Shift-Invariant Systems in $l_2(\mathbb{R})$ -- Gabor Frames in $L_2(\mathbb{R})$ -- Gabor Frames and Duality -- Selected Topics on Gabor Frames -- Gabor Frames in $2(\mathbb{Z}), L_2(0, L), CL$ -- General Wavelet Frames in $L_2(\mathbb{R})$ -- Dyadic Wavelet Frames for $L_2(\mathbb{R})$ -- Frame Multiresolution Analysis -- Wavelet Frames via Extension Principles -- Selected Topics on Wavelet Frames -- Generalized Shift-Invariant Systems in $L_2(\mathbb{R}^d)$ -- Frames on Locally Compact Abelian Groups -- Perturbation of Frames -- Approximation of the Inverse Frame Operator -- Expansions in Banach Spaces. Appendix.

This revised and expanded monograph presents the general theory for frames and Riesz bases in Hilbert spaces as well as its concrete realizations within Gabor analysis, wavelet analysis, and generalized shift-invariant systems. Compared with the first edition, more emphasis is put on explicit constructions with attractive properties. Based on the exiting development of frame theory over the last decade, this second edition now includes new sections on the rapidly growing fields of LCA groups, generalized shift-invariant systems, duality theory for as well Gabor frames as wavelet frames, and open problems in the field. Key features include: *Elementary introduction to frame theory in finite-dimensional spaces * Basic results presented in an accessible way for both pure and applied mathematicians * Extensive exercises make the work suitable as a textbook for use in graduate courses * Full proofs included in introductory chapters; only basic knowledge of functional analysis required * Explicit constructions of frames and dual pairs of frames, with applications and connections to time-frequency analysis, wavelets, and generalized shift-invariant systems * Discussion of frames on LCA groups and the concrete realizations in terms of Gabor systems on the elementary groups; connections to sampling theory * Selected research topics presented with recommendations for more advanced topics and further reading * Open problems to stimulate further research An Introduction to Frames and Riesz Bases will be of interest to graduate students and researchers working in pure and applied mathematics, mathematical physics, and engineering. Professionals working in digital signal processing who wish to understand the theory behind many modern signal processing tools may also find this book a useful self-study reference. Review of the first edition: "Ole Christensen's An Introduction to Frames and Riesz Bases is a first-rate introduction to the field The book provides an excellent exposition of these topics. The material is broad enough to pique the interest of many readers, the included exercises supply some interesting challenges, and the coverage provides enough background for those new to the subject to begin conducting original research." — Eric S. Weber, American Mathematical Monthly, Vol. 112, February, 2005 .

3. Record Nr.	UNINA9910845482803321
Autore	Deng Youjun
Titolo	Spectral Theory of Localized Resonances and Applications / / by Youjun Deng, Hongyu Liu
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819962440 9819962447
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (IX, 362 p. 49 illus., 47 illus. in color.)
Disciplina	605
Soggetti	Mathematical analysis Optics Mathematical physics Analysis Optics and Photonics Mathematical Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction and preliminaries -- Mathematical theory of plasmon/polariton resonances in quasi-static regime -- Anomalous localized resonances and its cloaking effect -- Localized resonances for anisotropic geometry -- Localized resonances beyond the quasi-static approximation -- Interior transmission resonances.
Sommario/riassunto	This book is devoted to the spectral theory of localized resonances including surface plasmon/polariton resonances, atypical resonances, anomalous localized resonances and interior transmission resonances. Those resonance phenomena arise in different physical contexts, but share similar features. They form the fundamental basis for many cutting-edge technologies and applications including invisibility cloaking and super-resolution imaging. The book presents a systematic and comprehensive treatment on these resonance phenomena and the associated applications in a unified manner from a mathematical and spectral perspective, covering acoustic, electromagnetic and elastic wave scattering. The book can serve as a handy reference book for researchers in this field and it can also serve as a textbook or an

inspiring source for postgraduate students who are interested in entering this field.
