

1. Record Nr.	UNINA9910637738103321
Autore	Lange Jorg
Titolo	Fourier transformation for signal and system description : compact, visual, intuitively understandable / / Jorg Lange and Tatjana Lange
Pubbl/distr/stampa	Wiesbaden, Germany : , : Springer, , [2022] ©2022
ISBN	3-658-33817-2
Descrizione fisica	1 online resource (63 pages)
Collana	Essentials
Disciplina	515.723
Soggetti	Fourier transformations Transformacions de Fourier Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- What You Can Find in This essential -- Contents -- Introduction -- About Sine, Cosine, and Other Periodic Functions -- Fourier Series -- Derivation -- From the Fourier Series to the Fourier Integral -- The Fourier Transformation of Standard Signals -- Aperiodic Rectangle Function -- Aperiodic Sinc-Function -- Gaussian Function -- Compressed and Stretched Gaussian Functions -- Dirac Function (Delta Function) -- Cosine Function -- Properties of the Fourier Transform and Approximation Relations -- The Fourier Transformation as a Tool for the Description of Signals and Systems -- Application of the Fourier Transform to Stochastic Signals -- Optimal Receive Filter (Wiener Filter) -- What You Can Take from This essential -- Literature.