



# Handbook of Fourier Analysis & Its Applications

By Robert J Marks II

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Fourier analysis has many scientific applications - in physics, number theory, combinatorics, signal processing, probability theory, statistics, option pricing, cryptography, acoustics, oceanography, optics and diffraction, geometry, and other areas. In signal processing and related fields, Fourier analysis is typically thought of as decomposing a signal into its component frequencies and their amplitudes.

This practical, applications-based professional handbook comprehensively covers the theory and applications of Fourier Analysis, spanning topics from engineering mathematics, signal processing and related multidimensional transform theory, and quantum physics to elementary deterministic finance and even the foundations of western music theory.

As a definitive text on Fourier Analysis, *Handbook of Fourier Analysis and Its Applications* is meant to replace several less comprehensive volumes on the subject, such as *Processing of Multifimensional Signals* by Alexandre Smirnov, *Modern Sampling Theory* by John J. Benedetto and Paulo J.S.G. Ferreira, *Vector Space Projections* by Henry Stark and Yongyi Yang and *Fourier Analysis and Imaging* by Ronald N. Bracewell. In addition to being primarily used as a professional handbook, it includes sample problems and their solutions at the end of each section and thus serves as a textbook for advanced undergraduate students and beginning graduate students in courses such as: Multidimensional Signals and Systems, Signal Analysis, Introduction to Shannon Sampling and Interpolation Theory, Random Variables and Stochastic Processes, and Signals and Linear Systems.

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