



Elementary Fourier Analysis: With Audio and Image Processing (Paperback)

By Phil Gustafson

Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.This book was written as a textbook for a one semester undergraduate mathematics course in Fourier analysis, with an emphasis on applications to basic signal processing. This course was developed by the author and first taught in 2007, using an early version of the book manuscript. The course has been taught annually since then, and both the course and book manuscript have evolved significantly over the years. The concepts in the book are illustrated with many MATLAB graphs and output, using programs written by the author for use by the students. The course has been a popular addition to a traditional undergraduate mathematics program at the author s university, using a hands-on approach in a computer classroom with MATLAB. For a wider audience, the book can be valuable for those interested in learning basics of Fourier analysis and signal processing, with or without MATLAB. The book does not explore advanced topics in signal processing and harmonic analysis, nor the application of Fourier series to the solution of separable partial differential equations - there are already many books written for these purposes. However,...



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