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Communication Theory and Signal Processing for Transform Coding

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About the ebook

This book is tailored to fulfil the requirements in the area of the signal processing in communication systems. The book contains numerous examples, solved problems and exercises to explain the methodology of Fourier Series, Fourier Analysis, Fourier Transform and properties, Fast Fourier Transform FFT, Discrete Fourier Transform DFT and properties, Discrete Cosine Transform DCT, Discrete Wavelet Transform DWT and Contourlet Transform CT. The book is characterized by three directions, the communication theory and signal processing point of view, the mathematical point of view and utility computer programs.

Contents

- ▶ Communication System and Signals
- ▶ Fourier Series and Power Spectra
- ▶ Fourier Transform and Energy Spectra
- ▶ Spectra of Nonintegrable Functions
- ▶ Fourier Transform and Power Spectra
- ▶ Correlation Function and Spectral Density
- ▶ Signal Transmission and Systems
- ▶ Hilbert Transform

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