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2.2.4.2 Cross-Correlation Function 2.2.5 Frequency Domain
Description; 2.2.5.1 The Fourier Series and Fourier Transformation;
2.2.5.2 Some Properties and Parameters of a Spectrum; 2.2.5.3 Time-
Bandwidth Products; 2.2.6 Doppler Scaling and Ambiguity Function; 2.3
Some Idealized UWB Signals; 2.3.1 Rectangular Unipolar and Bipolar
Pulse Trains; 2.3.2 Single Triangular Pulse; 2.3.3 Sinc Pulse; 2.3.4
Gaussian Pulses; 2.3.5 Binary Pseudo-Noise Codes; 2.3.6 Chirp; 2.3.7
Multi-Sine; 2.3.8 Random Noise; 2.4 Formal Description of Dynamic
Systems; 2.4.1 Introduction; 2.4.2 Time Domain Description
2.4.2.1 Linearity 2.4.2.2 The Impulse Response Function or the Time
Domain Green's Function; 2.4.2.3 Extraction of Information from the
Impulse Response Function; 2.4.3 The Frequency Response Function or
the Frequency Domain Green's Function; 2.4.3.1 Properties of the
Frequency Response Function and the Utility of the Frequency Domain;
2.4.3.2 Parameters of the Frequency Response Function; 2.4.4
Parametric System Descriptions; 2.4.4.1 Differential Equation; 2.4.4.2
The Laplace Transform; 2.4.4.3 Transfer Function; 2.4.4.4 State Space
Model; 2.4.5 Time Discrete Signal and Systems
2.4.5.1 Discrete Fourier Transform 2.4.5.2 Circular Correlation and
Convolution; 2.4.5.3 Data Record Length and Sampling Interval; 2.5
Physical System; 2.5.1 Energetic Interaction and Waves; 2.5.2 N-Port
Description by IV-Parameters; 2.5.3 N-Port Description by Wave
Parameters; 2.5.4 Determination of N-Port Parameters; 2.6
Measurement Perturbations; 2.6.1 Additive Random Noise and Signal-
to-Noise Ratio; 2.6.1.1 Signal-to-Noise Ratio (SNR); 2.6.1.2 Sliding
Average; 2.6.1.3 Synchronous Averaging; 2.6.1.4 Matched
Filter/Correlator; 2.6.1.5 Device Internal Noise; 2.6.1.6 Quantization
Noise
2.6.1.7 IRF and FRF Estimation from Noisy Data

Sommario/riassunto

Ranging from the theoretical basis of UWB sensors via implementation issues to applications, this much-needed book bridges the gap between designers and appliers working in civil engineering, biotechnology, medical engineering, robotic, mechanical engineering, safety and homeland security. From the contents: * History * Signal and systems in time and frequency domain * Propagation of electromagnetic waves (in frequency and time domain) * UWB-Principles * UWB-antennas and applicators * Data processing * Applications
