



Radar Design Principles

Fred E. Nathanson

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A comprehensive survey of current techniques, Radar Design Principles explores the relationship between radar signals and environment. The author discusses both detection and processing, presenting various types of waveforms and processors, and explaining how they cope with interference. The scope of his treatment is evident in the Table of Contents: Radar and its Composite Environment; Review of Radar Range Performance Computations; Statistical Relationships for Various Detection Processes; Automatic Detection by Nonlinear Sequential and Adaptive Processes; Radar Targets; Atmospheric Effects, Weather and Chaff; Sea and Land Backscatter; Signal Processing Concepts and Waveform Design; Moving Target Indicators; Environmental Limitations of CW Radars; Pulse-doppler and Burst Waveforms; Phase Coding Techniques; Linear Frequency Modulation and Frequency Coding; Hybrid Processors, Correlators and Incoherent Techniques.

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