

Stepped-Frequency Radar Sensors: Theory, Analysis and Design (SpringerBriefs in Electrical and Computer Engineering)

Cam Nguyen, Joongsuk Park



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This book presents the theory, analysis and design of microwave stepped-frequency radar sensors. Steppedfrequency radar sensors are attractive for various sensing applications that require fine resolution. The book consists of five chapters. The first chapter describes the fundamentals of radar sensors including applications followed by a review of ultra-wideband pulsed, frequency-modulated continuous-wave (FMCW), and stepped-frequency radar sensors. The second chapter discusses a general analysis of radar sensors including wave propagation in media and scattering on targets, as well as the radar equation. The third chapter addresses the analysis of stepped-frequency radar sensors including their principles and design parameters. Chapter 4 presents the development of two stepped-frequency radar sensors at microwave and millimeterwave frequencies based on microwave integrated circuits (MICs), microwave monolithic integrated circuits (MMICs) and printed-circuit antennas, and discusses their signal processing. Chapter 5 provides the electrical characterization and test results of the developed microwave and millimeterwave stepped-frequency radar sensors. Finally, a summary and conclusion is provided.

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