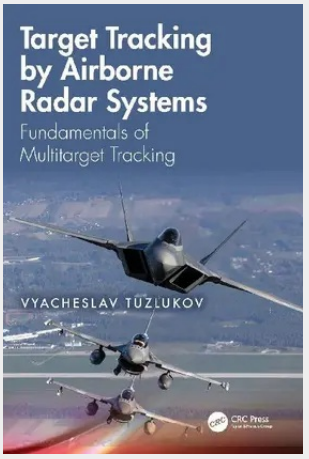
Tuzlukov

Target Tracking by Airborne Radar Systems

Fundamentals of Multitarget Tracking



Automated target tracking is a necessary function of airborne radar and radio control systems. At the present time, there is no classified approach to design and construct principles, functioning features, methods, algorithms, and procedures of synthesis and analysis of airborne radar target tracking systems by the range, velocity, and azimuth, satisfying all long-term requirements. The second volume, Target Tracking by Airborne Radar Systems: Fundamentals of Multitarget Tracking, is intended to cover the demands of uncertainty in multipurpose air and surface target tracking. Features: - Contains factual information about the current status of automated airborne radar target tracking systems, useful for a wide range of experts including military and civilian personnel, radio engineers, radar designers, and others - Provides several new perspectives on methods of synthesis, analysis, and design of airborne radar target tracking systems - Presents examples of how to practice implementation - Presents general information about the procedures to design and construct specific target tracking algorithms and to study their working capacity - Describes multipurpose air and surface target tracking modes employed by monostatic and multistatic airborne radar systems when targets are present in both resolved and unresolved groups Detailed algorithmic implementation procedures are provided, offering valuable guidance for radio and radar engineers, radar experts, and MS and PhD students.

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