

Novel Radar Techniques and Applications (Electromagnetics and Radar)



Continuing the work covered in Volume 1, Volume 2 covers: * Passive and multistatic radar, including bistatic clutter modeling; passive radar with airborne receivers; short-range passive radar potentialities; multi-illuminator and multistatic passive radar; through the wall imaging radar; forward scatter radar; GNSS-based passive radar; and passive MIMO radar networks* Waveform diversity and cognitive radar, including cognitive radar management; spectrum engineering; bio-inspired radar techniques; waveform design for spectral coexistence; concept of the intelligent radar network; clutter diversity; adaptive OFDM waveform design for spatio-temporal-sparsity exploited STAP radar; and applications of noise radar* Target tracking and data fusion, including multistatic tracking for passive radar applications; multiplatform radar surveillance for aerial and maritime surveillance; a review of posterior Cramer-Rao bound for target tracking; person tracking and data fusion for UWB radar applications; joint multi-target track-before-detect using particle filtering; radar-based ground surveillance; tracking and fusion in log-spherical state space with application to collision avoidance and kinematic ranging; and sensor management for radar networks.

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