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Radar Techniques Using Array Antennas (Iet Radar, Sonar and Navigation)

Wulf-Dieter Wirth

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This second edition includes new material on compressed sensing and its possible application to beam forming, results for phase-only-nulling against jammers, descriptions of further algorithms for superresolution and the reconnaissance of other radiating sources. This book also features a new chapter on radar operation by passive coherent location and the extension and explanation of the basic ideas for MIMOradar.

In addition to the coverage of antennas, array signal processing, adaptive digital beamforming and adaptive monopulse, several modern systems are described including spacetime adaptive processing (STAP), moving target detection using synthetic aperture radar (SAR) and several other experimental phased array radar systems. Topics include: array signal processing, array calibration, adaptive digital beamforming, adaptive monopulse, superresolution, pulse compression, sequential detection, target detection with long pulse series, spacetime adaptive processing (STAP), synthetic aperture radar (SAR), target imaging, energy management and system parameter relations. The discussed methods are confirmed by simulation studies and experimental array systems developed by the authors team at FGAN, now Fraunhofer.

This book will appeal to graduate level engineers, researchers and managers in the field of radar, aviation and space technology.

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