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Radar Techniques Using Array Antennas (Hardback)

By Wulf-Dieter Wirth

Institution of Engineering and Technology, United Kingdom, 2013. Hardback. Book Condition: New. 2nd Revised edition. 240 x 162 mm. Language: English . Brand New Book. Radar Techniques Using Array Antennas is a thorough introduction to the possibilities of radar technology based on electronic steerable and active array antennas. Topics covered include array signal processing, array calibration, adaptive digital beamforming, adaptive monopulse, superresolution, pulse compression, sequential detection, target detection with long pulse series, space-time adaptive processing (STAP), moving target detection using 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 new edition has been fully updated and revised, and includes discussion of compressed sensing and its possible application to beam forming, some results for phase-only-nulling against jammers, descriptions of further algorithms for superresolution for location and separation of radar targets and the reconnaissance of other radiating sources, extension and explanation of the basic ideas for MIMO-radar, and a new chapter on radar operation by passive coherent location. Providing many valuable lessons for designers of future high standard multifunction radar systems for military and civil applications, this...



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