



Advanced Array Systems, Applications and RF Technologies (Signal Processing and its Applications)

Nicholas Fourikis

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Advanced Array Systems, Applications and RF Technologies adopts a holistic view of arrays used in radar, electronic warfare, communications, remote sensing and radioastronomy. Radio frequency (RF) and intermediate frequency (IF) signal processing is assuming a fundamental importance, owing to its increasing ability to multiply a system's capabilities in a cost-effective manner. This book comprehensively covers the important front-end RF subsystems of active phased arrays, so offering array designers new and exciting opportunities in signal processing.

Key Features

- * provides an up to date record of existing systems from different applications
- * explores array systems under development
- * bridges the gap between textbook coverage of idealized phased arrays and practical knowledge of working phased arrays
- * recognises the significance of cost to the realization of phased arrays
- * discusses future advances in the field that promise to deliver even more affordable arrays ['intelligent' or self-focussing/-cohering arrays]

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