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Phased Array-Based Systems And Applications (Wiley Series In Microwave And Optical Engineering)



Synopsis

A comprehensive guide to state-of-the-art phased array-based systems and applications. First developed in 1937 to help improve communication links between the United States and the United Kingdom, phased arrays have evolved far beyond their original purpose. In addition to their value in radio communications, phased arrays are now a vital component in national defense, space exploration, astronomy, and electronic warfare. *Phased Array-Based Systems and Applications* was written for researchers and engineers with a professional interest in phased array-based systems. Timely, authoritative, and comprehensive, it discusses the most current uses of phased arrays (operating at cm and mm wavelengths) in radar, radio astronomy, remote sensing, electronic warfare, spectrum surveillance, and communications. This exploration of systems that share the same principles and perform similar functions helps phased array users in all these fields learn more about the systems and applications in which they specialize. More important, the complementary nature of a variety of sensors is emphasized throughout the book. While his consistent focus is on practical applications, the author also provides generous coverage of basic theoretical principles to help readers understand the systems trade-offs made in the design of various phased arrays. An indispensable professional resource for radar and antenna engineers, *Phased Array-Based Systems and Applications* is also a superior graduate-level text for students in these fields.

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