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Título: Array And Phased Array Antenna Basics

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Precio: \$1820.00

Editorial:

Año: 2005

Tema:

Edición: 1ª

Sinopsis

ISBN: 9780470871171

Reflecting a growing interest in phased array antenna systems, stemming from radar, radio astronomy, mobile communications and satellite broadcasting, Array and Phased Array Antenna Basics introduces the principles of array and phased array antennas. Packed with first-hand practical experience and worked-out examples, this is a valuable learning tool and reference source for those wishing to improve their understanding of basic array antenna systems without relying heavily on a thorough knowledge of electromagnetics or antenna theory.

Features a general introduction to antennas and explains the array antenna principle through discussion of the physical characteristics rather than the theory

Explores topics often not covered in antenna textbooks, such as active element pattern, array feeding, means of phase changing, array antenna characterisation, sequential rotation techniques and reactively loaded arrays

Guides the reader through the necessary mathematics, allowing them to move onto specialist books on array and phased array antennas with a greater understanding of the topic

Supported by a companion website on which instructors and lecturers can find electronic versions of the figures

An ideal introduction