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By T. K. Sarkar, M. Salazar-Palma, Eric L. Mokole

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An analysis of the physics of multiantenna systems

Multiple-Input Multiple-Output (MIMO) technology is one of the current hot topics in emerging wireless technologies. This book fills the important need for an authoritative reference on the merits of MIMO systems based on physics and provides a sound theoretical basis for its practical implementation. The book also addresses the important issues related to broadband adaptive processing.

Written by three internationally known researchers, *Physics of Multiantenna Systems and Broadband Processing*:

- Provides a thorough discussion of the physical and mathematical principles involved in MIMO and adaptive systems
- Examines the electromagnetic framework of wireless communications systems
- Uses Maxwell's theory to provide a system-based framework for the abstract concept of channel capacity
- Performs various numerical simulations to observe how a typical system will behave in practice
- Provides a mathematical formulation for broadband adaptive processing and direction-of-arrival estimation using real antenna arrays
- Integrates signal processing and electromagnetics to address the performance of realistic multiantenna systems

With *Physics of Multiantenna Systems and Broadband Processing*, communication systems engineers, graduate students, researchers, and developers will gain a thorough, scientific understanding of this important new technology.

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Tapan K. Sarkar, PhD, is a Professor in the Department of Electrical and Computer Engineering at Syracuse University, New York. His current research interests deal with numerical solutions of operator equations arising in electromagnetics and signal processing with application to system design. He is the author or coauthor of several books, including *Smart Antennas* and *History of Wireless*, both published by Wiley.

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Eric L. Mokole, PhD, is the Acting Superintendent of the Radar Division of the Naval Research Laboratory (NRL) in Washington, D.C. He has published more than sixty conference publications, journal articles, book chapters, and reports and is the lead editor of *Ultra-Wideband, Short-Pulse Electromagnetics 6* and coeditor of *Ultra-Wideband, Short-Pulse Electromagnetics 7*.

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