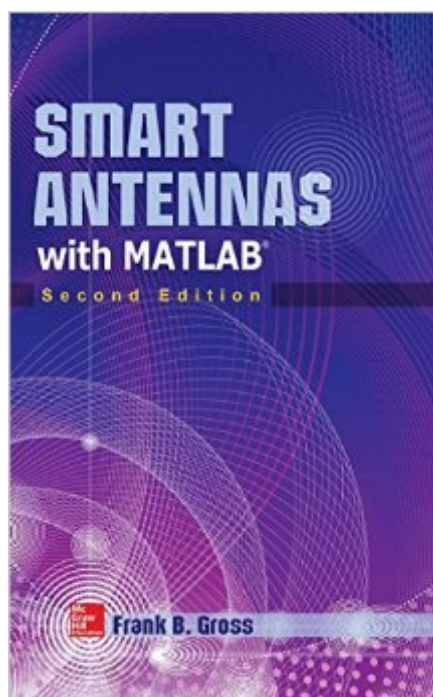# Smart Antennas With MATLAB, Second Edition

Synopsis

The most complete, current guide to smart antenna design and performance Featuring new coverage of reconfigurable antennas, vector antennas, and direction-finding antennas, this up-to-date resource offers a rigorous review of the basic electromagnetic principles that drive smart antenna design and deployment. Case studies and worked examples using MATLAB are provided. End-of-chapter assignments reinforce the concepts presented. Thoroughly revised to reflect recent developments and the latest technologies, this is a comprehensive reference for all professionals, students, and researchers in the field of smart antennas. Smart Antennas with MATLAB, Second Edition, covers: Fundamentals of electromagnetic fields Antenna fundamentals Array fundamentals Principles of random variables and processes Propagation channel characteristics Angle-of-arrival estimation Smart antennas Direction finding Electromagnetic vector sensors Smart antenna design and optimization

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