



# Ultra Wideband Antennas: Design, Methodologies, and Performance

*Giselle M. Galvan-Tejada, Marco Antonio Peyrot-Solis, Hildeberto Jardón Aguilar*

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**Ultra Wideband Antennas: Design, Methodologies, and Performance** presents the current state of the art of ultra wideband (UWB) antennas, from theory specific for these radiators to guidelines for the design of omnidirectional and directional UWB antennas. Offering a comprehensive overview of the latest UWB antenna research and development, this book:

- Discusses the developed theory for UWB antennas in frequency and time domains
- Delivers a brief exposition of numerical methods for electromagnetics oriented to antennas
- Describes solid-planar equivalence, which allows flat structures to be implemented instead of volumetric antennas
- Examines the impedance matching, phase linearity, and radiation patterns as design objectives for omnidirectional and directional antennas
- Addresses the time domain signal analysis for UWB antennas, from which the distortion phenomenon can be modeled
- Includes illustrative examples, design equations, CST MICROWAVE STUDIO® simulations, and MATLAB® plot generations
- Compares the performance of different UWB antennas, supplying useful insight into particular tendencies and unresolved problems

**Ultra Wideband Antennas: Design, Methodologies, and Performance** provides a valuable reference for the scientific community, as UWB antennas have a variety of applications in body area networks, radar, imaging, spectrum monitoring, electronic warfare, wireless sensor networks, and more.

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