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Compact Broadband and Multiband Antenna Designs

By Gerald R. DeJean

AV Akademikerverlag Jul 2012, 2012. Taschenbuch. Book Condition: Neu. 220x150x14 mm. This item is printed on demand - Print on Demand Neuware - Revision with unchanged content. The explosive growth of wireless communication systems has led to an increasing demand for the integration of embedded functions to compact low-cost RF front ends. As a result, the size of the antenna continues to be a limiting factor in this quest. For years, designers and engineers have researched methods of decreasing the size of the antenna, however, these methods are not always commercial viable. Therefore, I wrote this book with the intention to further educate the reader on the concepts and methods that can be used to miniaturize designs from WLAN to millimeter-wave frequencies without compromising important performance characteristics, such as gain, impedance bandwidth, and front-to-back ratio. The concepts presented in this book are not complex and can be practically integrated with commercial devices through the use of planar configurations. Finally, I wanted to present some insight on how design parameters of planar antennas could be used in other fields, such as computer science. I hope you enjoy! 236 pp. English.



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