

Victor Rabinovich · Nikolai Alexandrov

Antenna Arrays and Automotive Applications



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**Victor Rabinovich, Nikolai
Alexandrov, Basim Alkhateeb**



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Antenna Arrays and Automotive Applications Victor Rabinovich, Nikolai Alexandrov, 2012-08-09 This book throws a lifeline to designers wading through mounds of antenna array patents looking for the most suitable systems for their projects. Drastically reducing the research time required to locate solutions to the latest challenges in automotive communications, it sorts and systematizes material on cutting edge antenna arrays that feature multi element communication systems with enormous potential for the automotive industry. These new systems promise to make driving safer and more efficient, opening up myriad applications including vehicle to vehicle traffic that prevents collisions, automatic toll collection, vehicle location and fine tuning for cruise control systems. This book's exhaustive coverage begins with currently deployed systems, frequency ranges and key parameters. It proceeds to examine system geometry, analog and digital beam steering technology including smart beams formed in noisy environments, maximizing signal to noise ratios, miniaturization and base station technology that facilitates in-car connectivity while on the move. An essential guide for technicians working in a fast developing field, this new volume will be warmly welcomed as a powerful aid in their endeavors. [Antenna Arrays and Automotive Applications](#)

Springer, 2012-08-31 **Automotive Antenna Design and Applications** Victor Rabinovich, Nikolai Alexandrov, Basim Alkhateeb, 2017-12-19 The steady evolution of wireless communication technologies continues to pave the way for the implementation of innovative services and devices in modern vehicles. These include analog and digital audio broadcasting, radio, satellite, radio, GPS, cell phones and short range communication devices. Such applications require the use of multiple antennas operating in different frequency ranges. **Automotive Antenna Design and Applications** thoroughly examines traditional and new advanced automotive antennas, including the principles, designs and techniques used to reduce antenna dimensions without significant degradation of communication quality. The contents of this book are based on cutting edge data collected from numerous technical papers, patents and patent applications. It presents an overview of many commercially available automotive antennas and covers features that have become standard in automotive applications, such as printed on-car glass antennas, reduced size helical antennas, multiband compact printed on-dielectric and patch designs in a single package. Includes simulation examples of antenna parameters that significantly speed up the design process using software packages such as FEKO, NEC, IE3D and Genesys. Highlighting the practical aspects of antenna design, the authors present passive and active designs and describe the entire design process, including antenna simulation, prototype sample fabrication and laboratory test measurements. The book also covers the production adjustments that can result from the demands of the real car environment. The presentation of numerous examples of passive and active automotive antennas greatly enhances this reference's value to professionals, students and anyone else working in the ever evolving field of antenna design and application. [Automotive Antenna Design and Applications](#) VICTOR. ALEXANDROV RABINOVICH (NIKOLAI. ALKHATEEB, BASIM.), 2023 [Theory and Application of Antenna Arrays](#) M. T. Ma, 1974 [Adaptive Antenna Arrays: Trends And](#)

Applications Chandran S.,2008-02-01

The book delves into Antenna Arrays And Automotive Applications Author Victor Rabinovich Sep 201. Antenna Arrays And Automotive Applications Author Victor Rabinovich Sep 201 is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Antenna Arrays And Automotive Applications Author Victor Rabinovich Sep 201, encompassing both the fundamentals and more intricate discussions.

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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Antenna Arrays And Automotive Applications Author Victor Rabinovich Sep 201.

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