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Infinity display devices possess many desirable properties than enhance the training value of aircraft flight simulators. In the past, little has been done to apply reflective infinity display techniques to the problem of wide-angle visual simulation. This is primarily because glass mirrors were necessary to obtain the needed optical quality. These mirrors were heavy, fragile, expensive, and took a long time to manufacture. Additional support structures and control systems required by glass mirrors only added to the cost and complexity. Objectives of the nonglass infinity display research program were to study wide-angle display system concepts develop high-quality nonglass mirrors and fabrication techniques, build a prototype display system, and define cathode ray tube characteristics needed for the display. A prototype unit using nonglass mirrors was fabricated having a 120-degree horizontal field of view and a 45-degree vertical field. (Author).
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This volume presents the results of many decades of research carried out by the Department of Theoretical Physics of the Belarusian State University, one of former USSR's prominent universities, providing a “snapshot” of the research activities of the department. With contributions form leading researchers who graduated from the department and now working in well known research centers around the world, this collection of works consists of selected mini-reviews of a wide variety of research topics on modern theoretical physics. It includes information on the methods and

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Written by experts, this book is based on recent research findings in high-frequency isolated bidirectional DC-DC converters with wide voltage range. It presents advanced power control methods and new isolated bidirectional DC-DC topologies to improve the performance of isolated bidirectional converters. Providing valuable insights, advanced methods and practical design guides on the DC-DC conversion that can be considered in applications such as microgrid, bidirectional EV chargers, and solid state transformers, it is a valuable resource for researchers, scientists, and engineers in the field of isolated bidirectional DC-DC converters.

HWM Allied Publishers

We are always surrounded by electromagnetic waves and fields of various spectra. This book explains basic electromagnetic theory with the help of design formulations i.e. mathematical background on antennas along with experimentations, which has made this book unique. The main purpose of this book is to embed mathematical EM theory of dielectric resonator antennas with experimental validation so that understanding of concepts takes place. Initially, basic understanding of philosophy of dielectric resonators has

been discussed, then it is supported with mathematical modeling and later same is implemented with its prototype model along with experimentations. The modes theory gives important analysis on currents distribution, impedance analysis and radiation pattern in DRA. Circular polarization can built signal robustness, case studies on circular polarization has been included. Equivalent RLC circuit concept has been introduced. Challenges of switching from microwave to terahertz has been briefly discussed. Nano DRA will revolutionize the wireless technology. Nano DRA ,Terahertz DRA and Quantum DRA have analyzed and studied.

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network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

CIO

This book presents a series of new topologies and modulation schemes for soft-switching in isolated DC–DC converters. Providing detailed analyses and design procedures for converters used in a broad range of applications, it offers a wealth of engineering insights for researchers and students in the field of power electronics, as well as stimulating new ideas for future research.

The volume comprises best selected papers presented at International Conference on Wireless Communication (ICWiCOM) which is organized by Department of Electronics and Telecommunication Engineering of D J Sanghvi College of Engineering. The volume focusses on narrowed topics of wireless communication like signal and image processing applicable to wireless domain, networking, microwave and antenna designs, tele-medicine systems, etc. The papers are divided into three main domains like, networking, antenna designs and embedded systems applicable to the communication domain. The content will be helpful for Post-Graduate and Doctoral students in their research.

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