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Girish Kumar (M1983) received the Ph.D. degree in electrical engineering from IIT Kanpur, Kanpur, India, in 1983. From 1983 to 1985, he was a Research Associate with the Electrical Engineering Department, University of Manitoba, Winnipeg, MB, Canada. From 1985 to 1991, he was an Assistant Professor ...

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This practical resource offers you a comprehensive understanding of the radiation mechanism and characteristic of microstrip antennas, and provides guidance in designing new types of planar monopole antennas with multi-octave bandwidth. You learn how to select and design proper broadband microstrip antenna configurations for compact, tunable, dual-band and circular polarization applications ...

Broadband Microstrip Antennas: Girish Kumar, K.P. Ray ...
Introduction of Microstrip Antennas (MSA). Regular Shaped
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MSA. Tunable and Dual Frequency MSA. Broadband Circularly Polarized MSA. Broadband Planar Monopole Antennas. Appendix A Substrate Characteristics. Appendix B Design Equations for Microstrip Lines.

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Girish Kumar and K.P. Ray, [Broadband microstrip antennas], Artech House antennas and propagation library, page number:132-138, ISBN 1-58053-244-6,2003.

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several new broadband MSA configurations, such as, gap coupled and directly coupled rectangular MSA, hybrid coupled circular, semi-circular, and triangular MSA, electromagnetic and aperture coupled multilayer MSA.

Girish Kumar [Department of Electrical Engineering IIT Bombay]
Hemant Kumar and Girish Kumar, "A Broadband Planar Modified Quasi-Yagi Based on Log-Periodic Antenna", Progress in Electromagnetics Research Letters, Vol. 73, pp. 23-30, Jan. 2018.
Hemant Kumar and Girish Kumar, "Monopulse Comparators [Application Notes]", in IEEE Microwave Magazine, vol. 20, no. 3, pp. 13-100, March 2019.

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Annotation Microstrip antennas are lightweight and small volume, can be made conformal to the host surface, and are manufactured using printed- circuit technology so can be mass produced at low cost, but alas, say Kumar and Ray (Indian Institute of Technology, Bombay) their use has been restricted by their inherently narrow bandwidth. Over the past few decades, however, reports have surfaced of broadband configurations, and they detail the most promising, compiling material from scattered journals, conference proceedings, and books. They explain concepts of several techniques, and describe examples without bogging down in mathematical detail. Annotation copyrighted by Book News, Inc., Portland, OR.

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This volume presents selected papers from the 3rd International Conference on Optical and Wireless Technologies, conducted from 16th to 17th March, 2019. It focuses on extending the limits of currently used systems encompassing optical and wireless domains, and explores the latest developments in applications like photonics, high speed communication systems and networks, visible light communication, nano-photonics, wireless, and MIMO systems. The proceedings contain high quality scholarly articles, giving insight into the analytical, experimental, and developmental aspects of systems, techniques, and devices in these spheres. This volume will prove useful to researchers and professionals alike.

This book focuses on new techniques, analysis, applications and

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future trends of microstrip and printed antenna technologies, with particular emphasis to recent advances from the last decade. Attention is given to fundamental concepts and techniques, their practical applications and the future scope of developments. Several topics, essayed as individual chapters include reconfigurable antenna, ultra-wideband (UWB) antenna, reflectarrays, antennas for RFID systems and also those for body area networks. Also included are antennas using metamaterials and defected ground structures (DGSs). Essential aspects including advanced design, analysis and optimization techniques based on the recent developments have also been addressed. Key Features: Addresses emerging hot topics of research and applications in microstrip and printed antennas. Considers the fundamental concepts, techniques, applications and future scope of such technologies. Discusses modern applications

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such as wireless base station to mobile handset, satellite earth station to airborne communication systems, radio frequency identification (RFID) to body area networks, etc. Contributions from highly regarded experts and pioneers from the US, Europe and Asia This book provides a reference for R&D researchers, professors, practicing engineers, and scientists working in these fields. Graduate students studying/working on related subjects will find this book as a comprehensive literature for understanding the present and future trends in microstrip and printed antennas.

Microstrip patch antennas have become the favorite of antenna designers because of their versatility and having the advantages of planar profile, ease of fabrication, compatibility with integrated circuit technology, and conformability with a shaped surface. There

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is a need for graduate students and practicing engineers to gain an in depth understanding of this subject. The first edition of this book, published in 2011, was written with this purpose in mind. This second edition contains approximately one third new materials. The authors, Prof KF Lee, Prof KM Luk and Dr HW Lai, have all made significant contributions in the field. Prof Lee and Prof Luk are IEEE Fellows. Prof Lee was the recipient of the 2009 John Kraus Antenna Award of the IEEE Antennas and Propagation Society while Prof. Luk receives the same award in 2017, both in recognition of their contributions to wideband microstrip antennas.

Compact microstrip antennas are of great importance in meeting the miniaturization requirements of modern portable communications equipment This book is a comprehensive treatment of design

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techniques and test data for current compact and broadband microstrip designs Summarizes the work of the author and his graduate students who have published over 80 refereed journal articles on the subject in the past few years Advanced designs reported by various other prestigious antenna designers are incorporated as well

The book provides insights of International Conference in Communication, Devices and Networking (ICCDN 2017) organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India during 3 - 4 June, 2017. The book discusses latest research papers presented by researchers, engineers, academicians and industry professionals. It also assists both novice and experienced scientists and developers,

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to explore newer scopes, collect new ideas and establish new cooperation between research groups and exchange ideas, information, techniques and applications in the field of electronics, communication, devices and networking.

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