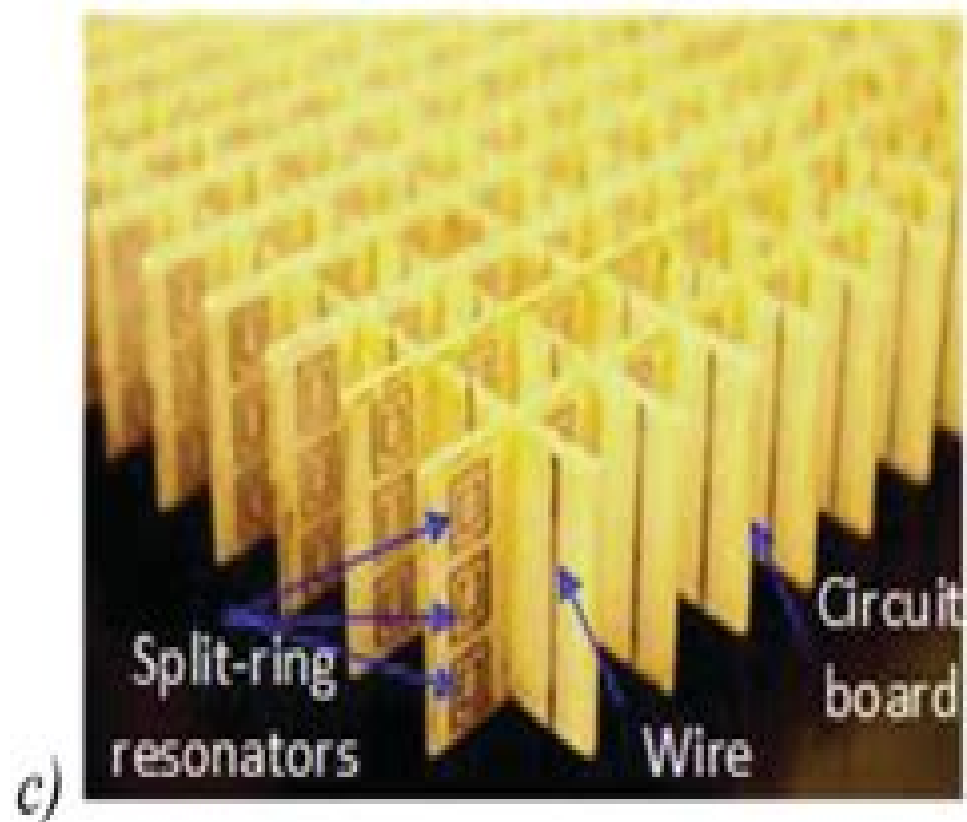
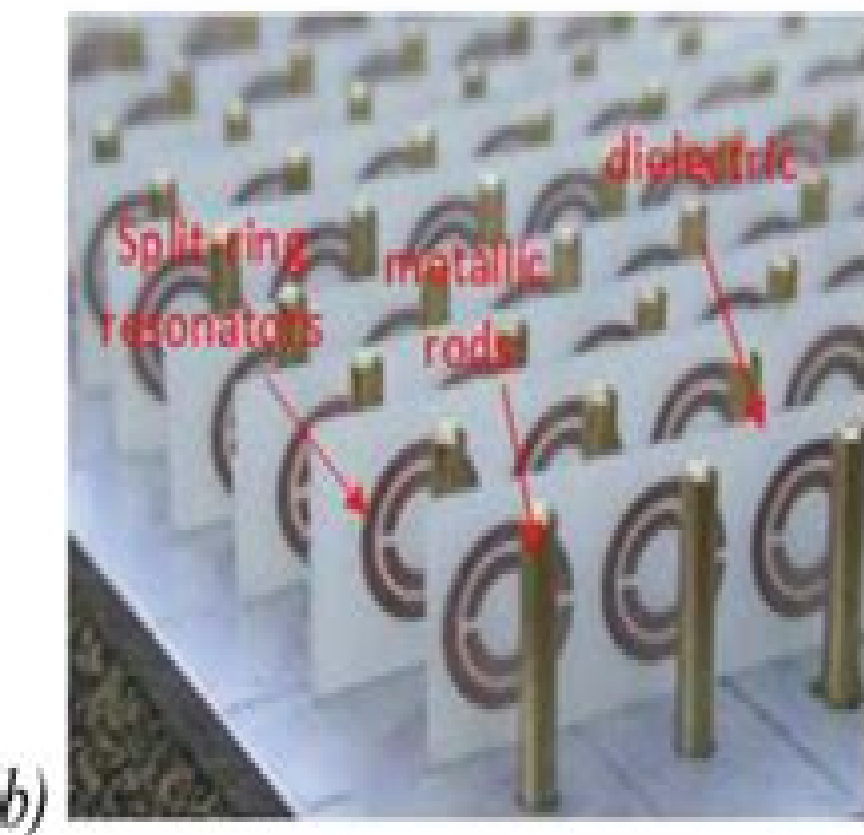
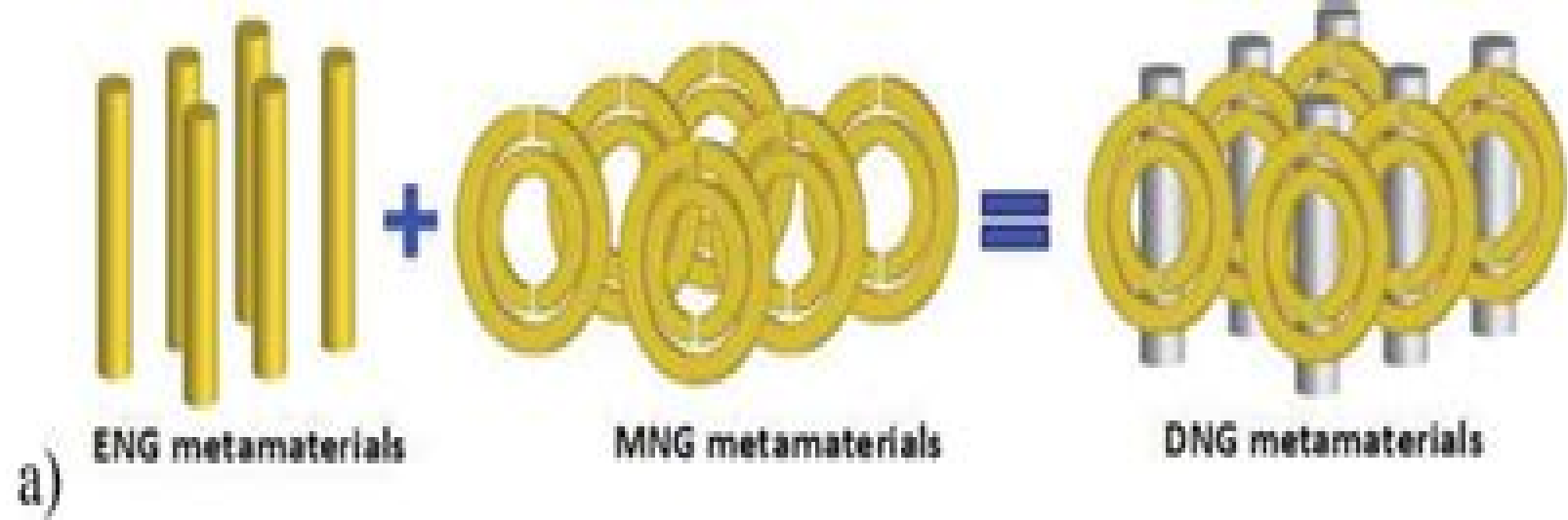




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The Advancing World of Applied Electromagnetics Akhlesh Lakhtakia, Cynthia M. Furse, Tom G. Mackay, 2024-04-08 This book commemorates five decades of research by Professor Magdy F Iskander Life Fellow IEEE on materials and devices for the radiation propagation scattering and applications of electromagnetic waves chiefly in the MHz THz frequency range as well on electromagnetics education This synopsis of electromagnetics stemming from the life and times of just one person is meant to inspire junior researchers and reinvigorate mid level researchers in the electromagnetics community The authors of this book are internationally known researchers including 12 IEEE fellows who highlight interesting research and new directions in theoretical experimental and applied electromagnetics Provides a single source reference to many of the most significant developments of the past 5 decades in theoretical experimental and applied electromagnetics Offers readers in each sub discipline discussed current research trends the state of the art the chief tools needed in that area and the vision of a

research leader for that area Includes content of particular interest in Antennas and Propagation as well as Microwave Theory and Techniques

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Antenna Fundamentals for Legacy Mobile Applications and Beyond Issa Elfergani, Abubakar Sadiq Hussaini, Jonathan Rodriguez, Raed Abd-Alhameed, 2017-10-03 This book highlights technology trends and challenges that trace the evolution of antenna design starting from 3rd generation phones and moving towards the latest release of LTE A The authors explore how the simple monopole and whip antenna from the GSM years have evolved towards what we have today an antenna design that is compact multi band in nature and caters to multiple elements on the same patch to provide high throughput connectivity The scope of the book targets a broad range of subjects including the microstrip antenna PIFA antenna and the monopole antenna to be used for different applications over three different mobile generations Beyond that the authors take a step into the future and look at antenna requirements for 5G communications which already has the 5G drive in place with prominent scenarios and use cases emerging They examine these and put in place the challenges that lie ahead for antenna design particularly in mm Wave design The book provides a reference for practicing engineers and under post graduate students working in this field

Electromagnetic Propagation and Waveguides in Photonics and Microwave Engineering Patrick Steglich, 2020-10-21 Optical and microwave waveguides have attracted much research interest in both science and industry The number of potential applications for their use is growing rapidly This book examines recent advances in the broad field of waveguide technology It covers current progress and latest breakthroughs in emergent applications in photonics and microwave engineering The book includes ten contributions on recent developments in waveguide technologies including theory simulation and fabrication of novel waveguide concepts as well as reviews on recent advances

Journal of Zhejiang University, 2006

Metamaterials for Antenna Applications Amit K. Singh, Mahesh P. Abegaonkar, Shiban Kishen Koul, 2021-09-12 The book presents an engineering approach for the development of metamaterials and metasurfaces with emphasis on application in antennas It offers an in depth study performance analysis

and extensive characterization on different types of metamaterials and metasurfaces Practical examples included in the book will help readers to enhance performance of antennas and also develop metamaterial based absorbers for a variety of applications Key Features Provides background for design and development of metamaterial structures using novel unit cells Gives in depth performance study of miniaturization of microstrip antennas Discusses design and development of both transmission and reflection types metasurfaces and their practical applications Verifies a variety of Metamaterial structures and Metasurfaces experimentally The target audience of this book is postgraduate students and researchers involved in antenna designs Researchers and engineers interested in enhancing the performance of the antennas using metamaterials will find this book extremely useful The book will also serve as a good reference for developing artificial materials using metamaterials and their practical applications Amit K Singh is Assistant Professor in the Department of Electrical Engineering at the Indian Institute of Technology Jammu India He is a Member of the IEEE USA Mahesh P Abegaonkar is Associate Professor at the Centre for Applied Research in Electronics at the Indian Institute of Technology Delhi He is a Senior Member of the IEEE USA Shibani Kishen Koul is Emeritus Professor at the Centre for Applied Research in Electronics at the Indian Institute of Technology Delhi He is a Life Fellow of the Institution of Electrical and Electronics Engineering IEEE USA a Fellow of the Indian National Academy of Engineering INAE and a Fellow of the Institution of Electronics and Telecommunication Engineers IETE *Applications of Metamaterials to Planar Antenna Design* Andrey V.

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