Advances In Microwaves By Leo Young

Monthly Catalog of United States Government Publications
advances in microwaves and lightwaves
Microwave and RF Product Applications
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Advances in Microwaves. Edited by Leo Young. [By Various Authors. With Illustrations.].
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Advances in Microwaves
Advances in Microwaves
Wireless Communications Design Handbook
1991 Integrated Technology Plan for the Civil Space Program
Remote Sensing of Aerosols, Clouds, and Precipitation
Advanced Techniques in RF Power Amplifier Design
Advances in Microwave and Radio Frequency Processing
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Integrated Technology Plan for the Civil Space Program

Advances in Microwaves
Handbook of Research on Advanced Trends in Microwave and Communication Engineering
New Serial Titles
Remote Sensing of Precipitation
The Nile River
Microwave Journal
Satellite Rainfall Applications for Surface Hydrology
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Microwaves
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Advanced EPR
Progress In Astronautics and Aeronautics
Advances in Microwaves

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Monthly Catalog of United States Government Publications IGI Global The field of microwave engineering has undergone a radical transformation in recent years, as commercial wireless endeavors overtook defense and government work. The modern microwave and RF engineer must be knowledgeable about customer expectations, market trends, manufacturing technologies, and factory models to a degree that is unprecedented. Unfortunately, most of the available literature does not reflect this fact, but remains focused on high-performance, low-volume applications. Microwave and RF Product Applications helps resolve that deficiency. Editor Mike Golio culled its chapters from his bestselling RF and Microwave Handbook, incorporated critical updates contributed by the original authors, and organized the chapters into a practical, tightly focused reference. A complete table of contents at the front of the text makes finding specific answers quick and easy, and detailed lists of references in each chapter provide convenient access to the relevant expert literature. For engineers in industry, government, or academia, Microwave and RF Product Applications provides insight and information that may be outside

their area of expertise. For managers, marketers, and technical support personnel, it builds a better understanding of the fields that drive and are affected by their decisions.

advances in microwaves and lightwaves MDPI Remote Sensing of Aerosols, Clouds, and Precipitation compiles recent advances in aerosol, cloud, and precipitation remote sensing from new satellite observations. The book examines a wide range of measurements from microwave (both active and passive), visible, and infrared portions of the spectrum. Contributors are experts conducting state-of-the-art research in atmospheric remote sensing using space, airborne, and ground-based datasets, focusing on supporting earth observation satellite missions for aerosol, cloud, and precipitation studies. A handy reference for scientists working in remote sensing, earth science, electromagnetics, climate physics, and space engineering. Valuable for operational forecasters, meteorologists, geospatial experts, modelers, and policymakers alike. Presents new approaches in the field, along with further research opportunities, based on the latest satellite data Focuses on how remote sensing systems can be designed/developed to solve outstanding

problems in earth and atmospheric sciences Edited by a dynamic team of editors with a mixture of highly skilled and qualified authors offering world-leading expertise in the field

Microwave and RF Product Applications CRC Press

Atmospheric Satellite Observations: Variation Assimilation and Quality Assurance provides an invaluable reference for satellite data assimilation. Topics covered include linear algebra, frequently used statistical methods, the interpolation role of function fitting, filtering when dealing with real observations, minimization in data assimilation systems, 3D-Var and the inverse problem it solves, 4D-Var and adjoint techniques, and much more. The book concludes with satellite observation of hurricanes. Contains mathematical concepts from several branches of study, including calculus, linear algebra, probability theory, functional analysis, and minimization Illustrates quality assurance for satellite observations using real data examples Includes a dedicated chapter on how different satellite instruments see hurricanes Reviews theory, system development, and the numerical experiments of three- and four-dimensional variational data assimilation (3D-Var/4D-Var)

Monthly Catalogue, United States Public Documents Artech House

Advances in Microwaves. Edited by Leo Young. [By Various Authors. With Illustrations.].Advances in MicrowavesAdvances in MicrowavesAdvances in MicrowavesAdvances in MicrowavesAcademic Press

International Aerospace Abstracts

Academic Press

This volume offers up-to-date and comprehensive information on various aspects of the Nile River, which is the main source of water in Egypt. The respective chapters examine the Nile journey; the Aswan High Dam Reservoir; morphology and sediment quality of the Nile; threats to biodiversity; fish and fisheries; rain-fed agriculture, rainfall data, and fluctuations in rainfall; the impact of climate change; and hydropolitics and legal aspects. The book closes with a concise summary of the conclusions and recommendations provided in the preceding chapters, and discusses the requirements for the sustainable development of the Nile River and potential ways to transform conflicts into cooperation. Accordingly, it offers an invaluable source of information for researchers, graduate students and policymakers alike.

Advances in Microwaves. Edited by Leo Young. [By Various Authors. With Illustrations.].

AIAA
This volume presents a series of overview articles arising from a workshop exploring the links among shallow clouds, water vapor, circulation, and climate sensitivity. It provides a state-of-the art synthesis of understanding about the coupling of clouds and water vapor to the large-scale circulation. The emphasis is on two phenomena, namely the self-aggregation of deep convection and interactions between low clouds and the large-scale environment, with direct links to the sensitivity of climate to radiative perturbations. Each subject is approached using simulations, observations, and synthesizing theory; particular attention is paid to opportunities offered by new remote-sensing technologies, some still prospective. The collection provides a thorough grounding in topics representing one of the World Climate Research Program's Grand Challenges. Previously published in Surveys in Geophysics, Volume 38, Issue 6, 2017 The aritcles "Observing Convective Aggregation", "An Observational View of Relationships Between Moisture Aggregation, Cloud, and Radiative Heating Profiles", "Implications of Warm Rain in Shallow Cumulus and Congestus Clouds for Large-Scale Circulations", "A Survey of Precipitation-Induced Atmospheric Cold Pools over Oceans and Their Interactions

with the Larger-Scale Environment", "Low-Cloud Feedbacks from Cloud-Controlling Factors: A Review", "Mechanisms and Model Diversity of Trade-Wind Shallow Cumulus Cloud Feedbacks: A Review", "Structure and Dynamical Influence of Water Vapor in the Lower Tropical Troposphere", "Emerging Technologies and Synergies for Airborne and Space-Based Measurements of Water Vapor Profiles", "Observational Constraints on Cloud Feedbacks: The Role of Active Satellite Sensors", and "EUREC4A: A Field Campaign to Elucidate the Couplings Between Clouds, Convection and Circulation" are available as open access articles under a CC BY 4.0 license at link.springer.com.

Catalog of Copyright Entries. Third Series

Elsevier

Advances in Microwaves, Volume 1 is a collection of papers dealing with the design and fabrication of a two-mile accelerator, optical waveguides, and directional couplers. One paper describes the design and fabrication of the disk-loaded wave guide, which serves as the accelerating structure, of the Stanford two-mile accelerator. Another paper discusses the basic principles of guided propagation, particularly the properties of the confocal lens systems or the "beam guide" variants. One paper describes the main

types of directional couplers (namely, waveguide directional couplers, TEM-Mode directional couplers) to help scientists and researchers determine a particular design. Some papers discuss singular integral equations to solve waveguide problems, the application of Lie algebraic theory to microwave networks, and partially filled waveguides and surface waveguides of rectangular cross section. One paper explains the application of the singular integral equation method to rectangular waveguides, including the infinite parallel plate configuration. Another paper cites the exponentially tapered transmission line as an example to show the application of Lie algebras in solving problems related to the microwave field. The collection is suitable for people in the field of applied mathematics, nuclear physics, quantum mechanics, and applied physics.

Advances in Microwaves Copyright Office, Library of Congress

Proceedings of the Symposium on Dielectric Materials and Multilayer Electronic Devices and the Symposium on Morphotropic Phase Boundary Phenomena and Perovskite Materials, held April 28 - May 1, 2002, in St. Louis, Missouri, during the 104th Annual Meeting of the American Ceramic Society, and the Focused Session on

High Strain Piezoelectrics, held April 22-25, 2001, in Indianapolis, Indiana, during the 103rd Annual Meeting of the American Ceramic Society.

Advances in Microwaves Elsevier

Precipitation is a well-recognized pillar in global water and energy balances. An accurate and timely understanding of its characteristics at the global, regional, and local scales is indispensable for a clearer understanding of the mechanisms underlying the Earth's atmosphere–ocean complex system. Precipitation is one of the elements that is documented to be greatly affected by climate change. In its various forms, precipitation comprises a primary source of freshwater, which is vital for the sustainability of almost all human activities. Its socio-economic significance is fundamental in managing this natural resource effectively, in applications ranging from irrigation to industrial and household usage. Remote sensing of precipitation is pursued through a broad spectrum of continuously enriched and upgraded instrumentation, embracing sensors which can be ground-based (e.g., weather radars), satellite-borne (e.g., passive or active space-borne sensors), underwater (e.g., hydrophones), aerial, or ship-borne.

Wireless Communications

Design Handbook
Springer
Wireless communications have become invaluable in the modern world. The market is going through a revolutionary transformation as new technologies and standards endeavor to keep up with demand for integrated and low-cost mobile and wireless devices. Due to their ubiquity, there is also a need for a simplification of the design of wireless systems and networks. The Handbook of Research on Advanced Trends in Microwave and Communication Engineering showcases the current trends and approaches in the design and analysis of reconfigurable microwave devices, antennas for wireless applications, and wireless communication technologies. Outlining both theoretical and experimental approaches, this publication brings to light the unique design issues of this emerging research, making it an ideal reference source for engineers, researchers, graduate students, and IT professionals.
Academic Press
With contributions from a panel of researchers from a wide range of fields, the chapters of this book focus on evaluating the potential, utility and application of high resolution satellite precipitation products in relation to surface hydrology.
1991 Integrated Technology Plan for the Civil Space Program
Springer Science &

Business Media Advances in Microwaves, Volume 8 covers the developments in the study of microwaves. The book discusses the circuit forms for microwave integrated circuits; the analysis of microstrip transmission lines; and the use of lumped elements in microwave integrated circuits. The text also describes the microwave properties of ferrimagnetic materials, as well as their interaction with electromagnetic waves propagating in bounded waveguiding structures. The integration techniques useful at high frequencies; material technology for microwave integrated circuits; specific requirements on technology for distributed and lumped-element circuits; and characterization and utilization of solid-state devices in integrated circuits are also encompassed. The book further tackles microwave propagation on coupled pairs of microstrip transmission lines and computer-aided design, simulation and optimization of microwave technology. Microwave engineers will find the book invaluable.

Remote Sensing of Aerosols, Clouds, and Precipitation Springer Prometheus brought fire to mankind Arthur R. von Hippel “Dielectrics and Waves”, 1954 Our contribution? There are only few areas of research and development of a

comparable scientific and technological extension as microwave and high frequency processing. “Pr- essing” means not only application of radiation of 300 MHz to 300 GHz f- quency to synthesis, heating or ionisation of matter but also generation, transm- sion and detection of microwave and radio frequency radiation. Microwave and high frequency sources positioned in the orbit are the foun- tion of modern satellite telecommunication systems, gyrotron tubes being pr- ently developed in different countries all over the world will most probably be the major devices to open up a new era of energy supply to mankind be means of - sion plasma. Although initiated by military purposes during the Second World War (RADAR, Radio Detection and Ranging), microwave and high frequency utilisation has spread over almost every important aspect of normal day life since than, from individual mobile phones and kitchen microwave ovens to industrial food processing, production of composites as sustainable building materials, green chemistry, medical applications and finally infrastructure installations like GPS and Galileo, to name only few examples. These different areas of microwave and high frequency radiation application can not be unified within one group of scientists and technologists. There

are s- eral distinguished communities active e.g., in the area of telecommunication s- tems, strong microwaves for fusion plasma or plasma based materials processing.

Advanced Techniques in RF Power Amplifier Design Allied Publishers

This much-anticipated volume builds on the author's best selling and classic work, RF Power Amplifiers for Wireless Communications (Artech House, 1999), offering experienced engineers a more in-depth understanding of the theory and design of RF power amplifiers. An invaluable reference tool for RF, digital and system level designers, the book includes discussions on the most critical topics for professionals in the field, including envelope power management schemes and linearization.

Advances in Microwave and Radio Frequency Processing Academic Press

This new book provides an up-to-date survey of existing EPR techniques and their applications in biology and biochemistry, and also provides a wealth of ideas for future developments in instrumentation and theory. The material is broadly organized into four parts. In the first part (chapters 1 to 6) pulsed EPR is discussed in detail. The second part (chapters 7 to 12) provides detailed discussions of a number of novel and experimental methods.

The third part comprises seven chapters on double-resonance techniques, five on ENDOR and two on optically- and reaction yield-detected resonance. The final part is devoted to a thorough discussion of a number of new developments in the application of EPR to various biological and biochemical problems. Advanced EPR will interest biophysicists, physical biochemists, EPR spectroscopists and others who will value the extensive treatment of pulsed EPR techniques, the discussion of new developments in EPR instrumentation, and the integration of theory and experimental details as applied to problems in biology and biochemistry.

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Volume One of the Wireless Communications Design Handbook provides an in-depth look at interference problems in satellite communications. The material presented is from a satellite or spacecraft hardware point of view rather than from theoretical models. Each satellite subsystem is described in detail to point out interference and noise problems associated with it. The book also addresses typical architectures and hardware design issues in satellites. In addition, a detailed look at space interference is discussed with emphasis on the possible impact on satellite electronics. An

applications-oriented reference for engineers, system designers, and practitioners Addresses the most common interference concerns in ground mobile wireless communications systems Hardware-oriented approach to interference and noise concerns as well as satellite subsystem design All satellite subsystems described in great technical detail Significantly covers space interference with a slanted approach to satellite hardware effects Covers modern hardware design for low earth orbit satellites to be used in wireless communications Integrated Technology Plan for the Civil Space Program Academic Press

Advances in Microwaves, Volume 7 covers the developments in the study of microwaves. The book discusses the effect of surface roughness on the propagation of the TEM mode, as well as the voltage breakdown of microwave antennas. The text also describes the theory and design considerations of single slotted-waveguide linear arrays and the techniques and theories that led to the achievement of wide bandwidths and ultralow noise temperatures for communication applications. The book will prove invaluable to microwave engineers. Advances in Microwaves Elsevier Handbook of Research on Advanced Trends in Microwave and

Communication Engineering Springer Science & Business Media
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