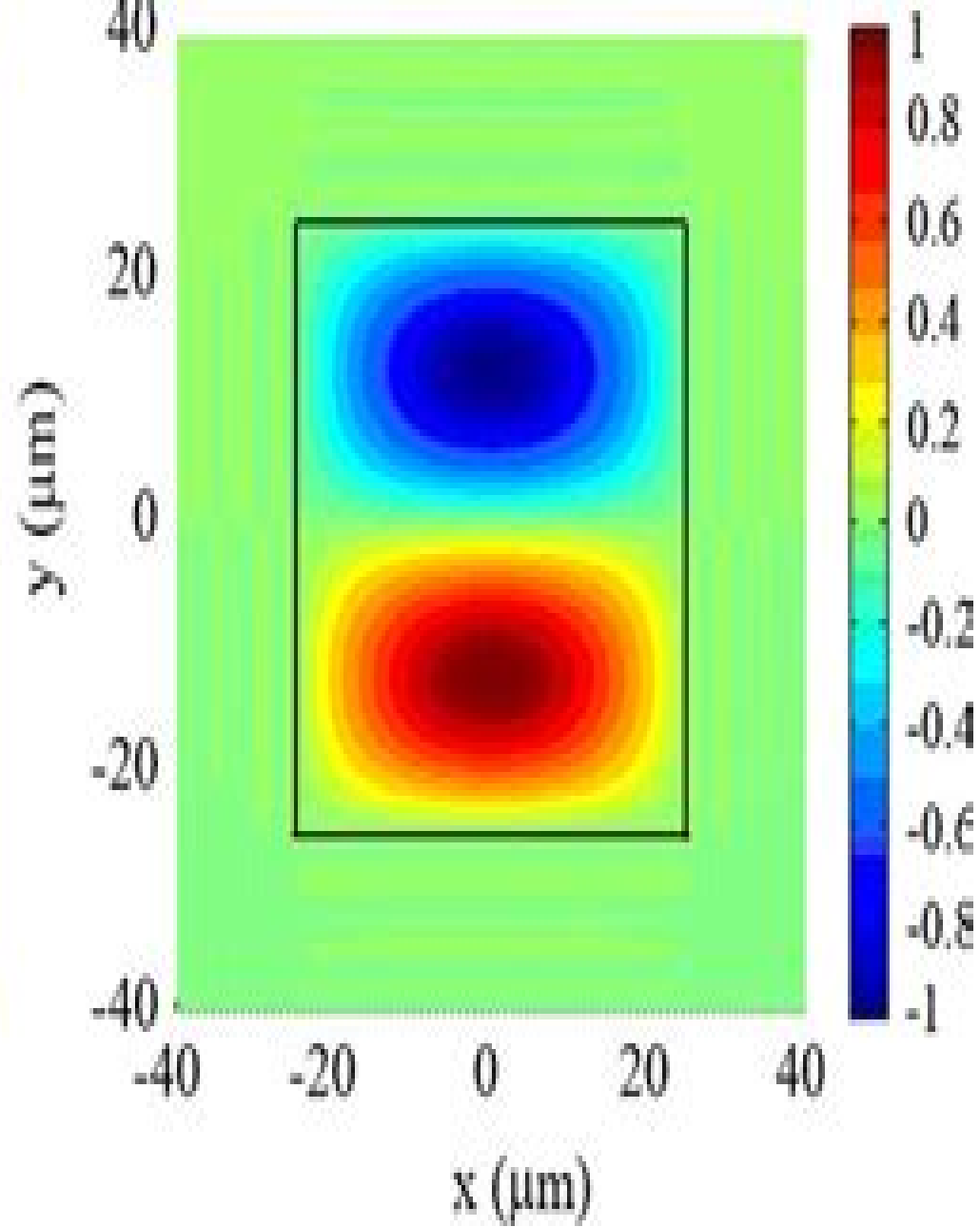


(a)



(b)

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Jet Propulsion Laboratory (U.S.)

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Jet Propulsion Laboratory text.

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Electromagnetic Radiation: Variational Methods, Waveguides and Accelerators Kimball A. Milton, J.

Schwinger, 2006-06-18 Julian Schwinger was already the world's leading nuclear theorist when he joined the Radiation Laboratory at MIT in 1943 at the ripe age of 25. Just 2 years earlier he had joined the faculty at Purdue after a postdoc with Oppenheimer in Berkeley and graduate study at Columbia. A nearly semester at Wisconsin had confirmed his penchant to work at night so as not to have to interact with Breit and Wigner there. He was to perfect his iconoclastic habits in his more than 2 years at the Rad Lab. Despite its deliberately misleading name the Rad Lab was not involved in nuclear physics which was imagined then by the educated public as a esoteric science without possible military application. Rather the subject at hand was the perfection of radar, the beaming and reflection of microwaves which had already saved Britain from the German onslaught. Here was a technology which won the war rather than one that prematurely ended it at a still incalculable cost. It was partly for that reason that Schwinger joined this effort rather than what might have appeared to be the more natural project for his awesome talents: the development of nuclear weapons at Los Alamos. He had got a bit of a taste of that at the Metallurgical Laboratory in Chicago and did not much like it. Perhaps more important for his decision to go to and stay at MIT during the war was its less regimented and isolated environment.

Intermediate Electromagnetic Theory Joseph V. Stewart, 2001 This invaluable text has been developed to provide students with more background on the applications of electricity and magnetism particularly with those topics which relate to current research. For example waveguides both metal and dielectric are discussed more thoroughly than in most texts because they are an important laboratory tool and important components of modern communications. In a sense this book modernizes the topics covered in the typical course on electricity and magnetism. It provides not only solid background for the student who chooses a field which uses techniques requiring knowledge of electricity and magnetism but also general background for the physics major.

Electromagnetic Theory for Microwaves and Optoelectronics Kequian Zhang, Dejie Li, 2013-06-29 This book is a first year graduate text on electromagnetic fields and waves. It is the translated and revised edition of the Chinese version with the same title published by the Publishing House of Electronic Industry (PHEI) of China in 1994. The text is based on the graduate course lectures on Advanced Electrodynamics given by the authors at Tsinghua University. More than 300 students from the Department of Electronic Engineering and the Department of Applied Physics have taken this course during the last decade. Their particular fields are microwave and millimeterwave theory and technology, physical electronics, optoelectronics and engineering physics. As the title of the book shows, the texts and examples in the book concentrate mainly on electromagnetic theory related to microwaves and optoelectronics or light wave technology. However, the book can also be used as an intermediate level text or reference book on electromagnetic fields and waves for students and scientists engaged in research in neighboring fields.

Handbook of Accelerator Physics and Engineering Alexander Wu Chao, Karl Hubert Mess, 2013 Edited by internationally

recognized authorities in the field this expanded and updated new edition of the bestselling Handbook containing more than 100 new articles is aimed at the design and operation of modern particle accelerators It is intended as a vade mecum for professional engineers and physicists engaged in these subjects With a collection of more than 2000 equations 300 illustrations and 500 graphs and tables here one will find in addition to the common formulae of previous compilations hard to find specialized formulae recipes and material data pooled from the lifetime experience of many of the world's most able practitioners of the art and science of accelerators The eight chapters include both theoretical and practical matters as well as an extensive glossary of accelerator types Chapters on beam dynamics and electromagnetic and nuclear interactions deal with linear and nonlinear single particle and collective effects including spin motion beam environment beam beam beam electron beam ion and intrabeam interactions The impedance concept and related calculations are dealt with at length as are the instabilities associated with the various interactions mentioned A chapter on operational considerations includes discussions on the assessment and correction of orbit and optics errors real time feedbacks generation of short photon pulses bunch compression tuning of normal and superconducting linacs energy recovery linacs free electron lasers cooling space charge compensation brightness of light sources collider luminosity optimization and collision schemes Chapters on mechanical and electrical considerations present material data and important aspects of component design including heat transfer and refrigeration Hardware systems for particle sources feedback systems confinement and acceleration both normal conducting and superconducting receive detailed treatment in a subsystems chapter beam measurement techniques and apparatus being treated therein as well The closing chapter gives data and methods for radiation protection computations as well as much data on radiation damage to various materials and devices A detailed name and subject index is provided together with reliable references to the literature where the most detailed information available on all subjects treated can be found

Handbook Of Accelerator Physics And Engineering (3rd Printing) Maury Tigner, 1999-03-26 Edited by internationally recognized authorities in the field this expanded edition of the bestselling Handbook first published in 1999 is aimed at the design and operation of modern accelerators including Linacs Synchrotrons and Storage Rings It is intended as a vade mecum for professional engineers and physicists engaged in these subjects With a collection of 2200 equations 345 illustrations and 185 tables here one will find in addition to the common formulae of previous compilations hard to find specialized formulae recipes and material data pooled from the lifetime experience of many of the world's most able practitioners of the art and science of accelerators The eight chapters include both theoretical and practical matters as well as an extensive glossary of accelerator types Chapters on beam dynamics and electromagnetic and nuclear interactions deals with linear and nonlinear single particle and collective effects including spin motion beam environment beam beam and intrabeam interactions The impedance concept and calculations are dealt with at length as are the instabilities associated with the various interactions mentioned A chapter on operational considerations deals with orbit error assessment and

correction Chapters on mechanical and electrical considerations present material data and important aspects of component design including heat transfer and refrigeration Hardware systems for particle sources feedback systems confinement and acceleration both normal conducting and superconducting receive detailed treatment in a subsystems chapter beam measurement techniques and apparatus being treated therein as well The closing chapter gives data and methods for radiation protection computations as well as much data on radiation damage to various materials and devices A detailed index is provided together with reliable references to the literature where the most detailed information available on all subjects treated can be found

Technologies for Spacecraft Antenna Engineering Design Rui You, Wenjun Gao, Chunbang Wu, Hongbin Li, 2020-09-14 This book focuses on engineering design approaches for spacecraft antennas Based on their functions in spacecraft it discusses practical antenna design measurement and testing Most of the antennas covered originated at the China Academy of Space Technology CAST which has launched almost 300 satellites into orbit The book presents antenna systems for seven existing spacecraft designs while also introducing readers to new antenna technologies for spacecraft This book is intended for researchers graduate students and engineers in various fields of aerospace technology and astronautics especially spacecraft design communication engineering and related areas

Electromagnetic Waveguides S. F. Mahmoud, 1991 A textbook for an introductory graduate course in electromagnetic waveguides covering such types as low attenuation dielectric and the natural wave guides in the ionosphere and in mine tunnels Annotation copyrighted by Book News Inc Portland OR

Practical Applications of Microresonators in Optics and Photonics Andrey B. Matsko, 2018-09-03 Assembling an international team of experts this book reports on the progress in the rapidly growing field of monolithic micro and nanoresonators The book opens with a chapter on photonic crystal based resonators nanocavities It goes on to describe resonators in which the closed trajectories of light are supported by any variety of total internal reflection in curved and polygonal transparent dielectric structures The book also covers distributed feedback microresonators for slow light controllable dispersion and enhanced nonlinearity A portion of coverage is dedicated to the unique properties of resonators which are extremely efficient tools when conducting multiple applications

Computer Algebra in Scientific Computing Matthew England, Wolfram Koepf, Timur M. Sadykov, Werner M. Seiler, Evgenii V. Vorozhtsov, 2019-08-15 This book constitutes the refereed proceedings of the 21st International Workshop on Computer Algebra in Scientific Computing CASC 2019 held in Moscow Russia in August 2019 The 28 full papers presented together with 2 invited talks were carefully reviewed and selected from 44 submissions They deal with cutting edge research in all major disciplines of computer algebra The papers cover topics such as polynomial algebra symbolic and symbolic numerical computation applications of symbolic computation for investigating and solving ordinary differential equations applications of CASs in the investigation and solution of celestial mechanics problems and in mechanics physics and robotics

Engineering Electromagnetics Nathan Ida, 2015-03-20 This book provides students with a thorough theoretical

understanding of electromagnetic field equations and it also treats a large number of applications The text is a comprehensive two semester textbook The work treats most topics in two steps a short introductory chapter followed by a second chapter with in depth extensive treatment between 10 to 30 applications per topic examples and exercises throughout the book experiments problems and summaries The new edition includes modifications to about 30 40% of the end of chapter problems a new introduction to electromagnetics based on behavior of charges a new section on units MATLAB tools for solution of problems and demonstration of subjects most chapters include a summary The book is an undergraduate textbook at the Junior level intended for required classes in electromagnetics It is written in simple terms with all details of derivations included and all steps in solutions listed It requires little beyond basic calculus and can be used for self study The wealth of examples and alternative explanations makes it very approachable by students More than 400 examples and exercises exercising every topic in the book Includes 600 end of chapter problems many of them applications or simplified applications Discusses the finite element finite difference and method of moments in a dedicated chapter

Microcavity Semiconductor Lasers Yong-zhen Huang, Yue-de Yang, 2021-06-28 Microcavity Semiconductor Lasers Explore this thorough overview of integrable microcavity semiconductor lasers and their applications from two leading voices in the field Attracting a great deal of attention over the last decades for their promising applications in photonic integration and optical interconnects microcavity semiconductor lasers continue to develop via advances in fundamental physics theoretical analysis and numerical simulations In a new work that will be of interest to researchers and practitioners alike Microcavity Semiconductor Lasers Principles Design and Applications delivers an application oriented and highly relevant exploration of the theory fabrication and applications of these practical devices The book focuses on unidirectional emission microcavity lasers for photonic integrated circuits including polygonal microresonators microdisk and microring lasers After an introductory overview of optical microcavities for microlasers and detailed information of the lasers themselves including mode structure control and characteristics and lasing properties the distinguished authors discuss fabrication and applications of different microcavity lasers Prospects for future research and potential new applications round out the book Readers will also benefit from the inclusion of A thorough introduction to multilayer optical waveguides the FDTD Method and Pad Approximation and deformed chaos and unidirectional emission microdisk lasers An exploration of mode analysis for triangle and square microresonators similar as FP Cavity Practical discussions of mode analysis and control for deformed square microlasers An examination of hexagonal microcavity lasers and polygonal microcavities along with vertical radiation loss for 3D microcavities Perfect for laser specialists semiconductor physicists and solid state physicists Microcavity Semiconductor Lasers Principles Design and Applications will also earn a place in the libraries of materials scientists and professionals working in the semiconductor and optical industries seeking a one stop reference for integrable microcavity semiconductor lasers

Unconventional Optical Elements for Information Storage, Processing and Communications Emanuel

Marom, Nikolaos A. Vainos, Asher A. Friesem, Joseph W. Goodman, 2012-12-06 The field of optics has been accelerating at an unprecedented rate due both to the tremendous growth of the field of fiber optic communications and to the improvement of optical materials and devices Throughput capabilities of fiber systems are accelerating faster than Moore's law the famous growth rate of silicon chip capability which has propelled that industry relentlessly over decades In addition new optical storage techniques push the limits of information density with an ever decreasing cost per bit of storage Economic investment in photonics is at an all time high At the same time other fields of optics adaptive optics for instance are bringing new capabilities to more classical applications such as astronomical imaging New lasers continue to be developed with applications in display sensing and biomedicine following at ever shorter intervals after the initial discoveries Given this background the NATO Mediterranean Dialog Advanced Research Workshop on Unconventional Optical Elements for Information Storage Processing and Communications held in Israel on October 19-21 1998 came at an opportune moment in the history of optics Its aim was to overview the current state of the art and encourage cooperation in the Mediterranean region with a view to highlighting and enhancing the existing potential for further development and innovation The workshop included participants from Belgium France Germany Greece Israel Italy Jordan Morocco Portugal Romania Russia Switzerland Turkey United Kingdom and USA

Electromagnetics Edward J. Rothwell, Michael J. Cloud, 2018-04-17 Providing an ideal transition from introductory to advanced concepts this book builds a foundation that allows electrical engineers to confidently proceed with the development of advanced EM studies research and applications New topics include quasistatics vector spherical wave functions and wave matrices Several application oriented sections covering guided waves and transmission lines particle dynamics shielding electromagnetic material characterization and antennas have also been added Mathematical appendices present helpful background information in the areas of Fourier transforms dyadics and boundary value problems Key Features Provides extensive end of chapter problems Includes numerous solved examples with detailed explanations and interpretations Introduces the reader to numerical electromagnetics and integral equations Each chapter offers an introduction to an important application of electromagnetics Emphasizes fundamentals while covering all of the important topics in electromagnetics

Theory of Waveguides and Transmission Lines Edward F. Kuester, 2020-09-19 This book covers the principles of operation of electromagnetic waveguides and transmission lines The approach is divided between mathematical descriptions of basic behaviors and treatment of specific types of waveguide structures Classical distributed network transmission lines their basic properties their connection to lumped element networks and the distortion of pulses are discussed followed by a full field analysis of waveguide modes Modes of specific kinds of waveguides traditional hollow metallic waveguides dielectric including optical waveguides etc are discussed Problems of excitation and scattering of waveguide modes are addressed followed by discussion of real systems and performance

Proceedings, 1965

Handbook of Laser Technology and Applications Colin. E. Webb, 2020-09-29 The invention of the laser was one of the

towering achievements of the twentieth century At the opening of the twenty first century we are witnessing the burgeoning of the myriad technical innovations to which that invention has led The Handbook of Laser Technology and Applications is a practical and long lasting reference source for scientists and engineers who work with lasers The Handbook provides a comprehensive guide to the current status of lasers and laser systems it is accessible to science or engineering graduates needing no more than standard undergraduate knowledge of optics Whilst being a self contained reference work the Handbook provides extensive references to contemporary work and is a basis for studying the professional journal literature on the subject It covers applications through detailed case studies and is therefore well suited to readers who wish to use it to solve specific problems of their own The first of the three volumes comprises an introduction to the basic scientific principles of lasers laser beams and non linear optics The second volume describes the mechanisms and operating characteristics of specific types of laser including crystalline solid state lasers semiconductor diode lasers fibre lasers gas lasers chemical lasers dye lasers and many others as well as detailing the optical and electronic components which tailor the laser s performance and beam delivery systems The third volume is devoted to case studies of applications in a wide range of subjects including materials processing optical measurement techniques medicine telecommunications data storage spectroscopy earth sciences and astronomy and plasma fusion research This vast compendium of knowledge on laser science and technology is the work of over 130 international experts many of whom are recognised as the world leaders in their respective fields Whether the reader is engaged in the science technology industrial or medical applications of lasers or is researching the subject as a manager or investor in technical enterprises they cannot fail to be informed and enlightened by the wide range of information the Handbook supplies

Proceedings of the Apollo Unified S-band Technical Conference Held at Goddard Space Flight Center, July 14-15, 1965 Apollo Unified S-band Technical Conference,1995 Microwave Engineering David M. Pozar,2021 The 4th edition of this classic text provides a thorough coverage of RF and microwave engineering concepts starting from fundamental principles of electrical engineering with applications to microwave circuits and devices of practical importance Coverage includes microwave network analysis impedance matching directional couplers and hybrids microwave filters ferrite devices noise nonlinear effects and the design of microwave oscillators amplifiers and mixers Material on microwave and RF systems includes wireless communications radar radiometry and radiation hazards A large number of examples and end of chapter problems test the reader s understanding of the material The 4th edition includes new and updated material on systems noise active devices and circuits power waves transients RF CMOS circuits and more

Advances in Microwaves Leo Young,2013-10-22 Advances in Microwaves Volume 4 covers some innovations in the devices and applications of microwaves This volume contains three chapters and begins with a discussion of the application of microwave phasers and time delay elements as beam steering elements in array radars The next chapter provides first an overview of the technical aspects and different types of millimeter waveguides followed by a survey of their

application to railroads The last chapter examines the general mode of conversion properties of nonuniform waveguides such as waveguide tapers using converted Maxwell's equations with appropriate boundary conditions into generalized telegraphist's equations *Technical Report - Jet Propulsion Laboratory, California Institute of Technology* Jet Propulsion Laboratory (U.S.), 1962

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