

Substituting (8) in (5) and then solving for I leads to:

$$\begin{aligned} R_1 I + \frac{jR_2 \omega L}{R_2 + j\omega L} I &= \tilde{V}_s \\ I \left(R_1 + \frac{jR_2 \omega L}{R_2 + j\omega L} \right) &= \tilde{V}_s \\ I \left(\frac{R_1 R_2 + jR_1 \omega L + jR_2 \omega L}{R_2 + j\omega L} \right) &= \tilde{V}_s \\ I &= \left(\frac{R_2 + j\omega L}{R_1 R_2 + j\omega L(R_1 + R_2)} \right) \tilde{V}_s. \end{aligned} \quad (17)$$

Combining (6) and (7) to solve for i_L in terms of I gives

$$i_L = \frac{R_2}{R_2 + j\omega L} I. \quad (18)$$

Combining (9) and (10) leads to

$$\begin{aligned} i_L &= \left(\frac{R_2}{R_2 + j\omega L} \right) \left(\frac{R_2 + j\omega L}{R_1 R_2 + j\omega L(R_1 + R_2)} \right) \tilde{V}_s \\ &= \frac{R_2}{R_1 R_2 + j\omega L(R_1 + R_2)} \tilde{V}_s. \end{aligned}$$

Using (1) for \tilde{V}_s and replacing R_1 , R_2 , L and ω with their numerical values, we have

$$\begin{aligned} i_L &= \frac{30}{20 \times 30 + j4 \times 10^4 \times 0.4 \times 10^{-3} (20 + 30)} \frac{25e^{-j45^\circ}}{e^{-j45^\circ}} \\ &= \frac{30 \times 25}{600 + j800} e^{-j45^\circ} \\ &= \frac{7.5}{6 + j8} e^{-j45^\circ} = \frac{7.5e^{-j45^\circ}}{10e^{j56.1^\circ}} = 0.75e^{-j98.1^\circ} \quad (\text{A}). \end{aligned}$$

Finally,

$$\begin{aligned} i_L(t) &= \Re\{i_L e^{j\omega t}\} \\ &= 0.75 \cos(4 \times 10^4 t - 98.1^\circ) \quad (\text{A}). \end{aligned}$$

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Solution To All Ulaby Electromagnetics Problems:

Modern Electromagnetic Scattering Theory with Applications Andrey V. Osipov, Sergei A. Tretyakov, 2017-01-20 This self contained book gives fundamental knowledge about scattering and diffraction of electromagnetic waves and fills the gap between general electromagnetic theory courses and collections of engineering formulas The book is a tutorial for advanced students learning the mathematics and physics of electromagnetic scattering and curious to know how engineering concepts and techniques relate to the foundations of electromagnetics

Teaching Electromagnetics Krishnasamy T. Selvan, Karl F. Warnick, 2021-06-17 Teaching Electromagnetics Innovative Approaches and Pedagogical Strategies is a guide for educators addressing course content and pedagogical methods primarily at the undergraduate level in electromagnetic theory and its applications Topics include teaching methods lab experiences and hands on learning and course structures that help teachers respond effectively to trends in learning styles and evolving engineering curricula The book grapples with issues related to the recent worldwide shift to remote teaching Each chapter begins with a high level consideration of the topic reviews previous work and publications and gives the reader a broad picture of the topic before delving into details Chapters include specific guidance for those who want to implement the methods and assessment results and evaluation of the effectiveness of the methods Respecting the limited time available to the average teacher to try new methods the chapters focus on why an instructor should adopt the methods proposed in it Topics include virtual laboratories computer assisted learning and MATLAB tools The authors also review flipped classrooms and online teaching methods that support remote teaching and learning The end result should be an impact on the reader represented by improvements to his or her practical teaching methods and curricular approach to electromagnetics education The book is intended for electrical engineering professors students lab instructors and practicing engineers with an interest in teaching and learning In summary this book Surveys methods and tools for teaching the foundations of wireless communications and electromagnetic theory Presents practical experience and best practices for topical coverage course sequencing and content Covers virtual laboratories computer assisted learning and MATLAB tools Reviews flipped classroom and online teaching methods that support remote teaching and learning Helps instructors in RF systems field theory and wireless communications bring their teaching practice up to date Dr Krishnasamy T Selvan is Professor in the Department of Electronics Communication Engineering SSN College of Engineering since June 2012 Dr Karl F Warnick is Professor in the Department of Electrical and Computer Engineering at BYU

Electromagnetics for Engineering Students Part I Sameir M. Ali Hamed, 2017-09-20 Electromagnetics for Engineering Students starts with an introduction to vector analysis and progressive chapters provide readers with information about dielectric materials electrostatic and magnetostatic fields as well as wave propagation in different situations Each chapter is supported by many illustrative examples and solved problems which serve to explain the principles of the topics and enhance the knowledge of students In addition to the coverage of classical topics in electromagnetics the

book explains advanced concepts and topics such as the application of multi pole expansion for scalar and vector potentials an in depth treatment for the topic of the scalar potential including the boundary value problems in cylindrical and spherical coordinates systems metamaterials artificial magnetic conductors and the concept of negative refractive index Key features of this textbook include detailed and easy to follow presentation of mathematical analyses and problems a total of 681 problems 162 illustrative examples 88 solved problems and 431 end of chapter problems an appendix of mathematical formulae and functions Electromagnetics for Engineering Students is an ideal textbook for first and second year engineering students who are learning about electromagnetism and related mathematical theorems Electromagnetic Waves Vitaliy Zhurbenko,2011-06-21 This book is dedicated to various aspects of electromagnetic wave theory and its applications in science and technology The covered topics include the fundamental physics of electromagnetic waves theory of electromagnetic wave propagation and scattering methods of computational analysis material characterization electromagnetic properties of plasma analysis and applications of periodic structures and waveguide components and finally the biological effects and medical applications of electromagnetic fields **Advanced Computational Electromagnetic Methods** Wenhua Yu,Wenxing Li,Atef Elsherbeni,Yahya Rahmat-Samii,2015-03-01 This new resource covers the latest developments in computational electromagnetic methods with emphasis on cutting edge applications This book is designed to extend existing literature to the latest development in computational electromagnetic methods which are of interest to readers in both academic and industrial areas The topics include advanced techniques in MoM FEM and FDTD spectral domain method GPU and Phi hardware acceleration metamaterials frequency and time domain integral equations and statistics methods in bio electromagnetics *Engineering Electromagnetics Explained* Lakshman Kalyan,2025-02-20 Engineering Electromagnetics Explained is a comprehensive textbook designed to provide students with a solid foundation in the principles and applications of electromagnetics Written by leading experts this book covers fundamental concepts theoretical frameworks and practical applications in engineering We start with basic principles of electromagnetism including Coulomb s Law Gauss s Law and Maxwell s Equations then delve into advanced topics such as electromagnetic waves transmission lines waveguides antennas and electromagnetic compatibility EMC Key Features Clear and concise explanations of fundamental electromagnetics concepts Numerous examples and illustrations to aid understanding Practical applications and real world examples demonstrating electromagnetics relevance in engineering Comprehensive coverage of topics including transmission lines waveguides antennas and EMC End of chapter problems and exercises to reinforce learning This textbook is suitable for undergraduate and graduate students in electrical engineering electronics and communication engineering and related disciplines It serves as an essential resource for courses on electromagnetics electromagnetic field theory and electromagnetic compatibility Additionally practicing engineers and researchers will find this book a valuable reference for understanding and applying electromagnetics principles in their work

Electromagnetics in a Complex World Innocenzo Pinto,Vincenzo Galdi,Leopold B. Felsen,2012-12-06 This monograph contains the ceremonials and the Proceedings pertaining to the WorkshopjMinisymposium on Electromagnetics in a Complex World Challenges and Perspectives convened at the University of Sannio Ben evento Italy from February 20 21 2003 in connection with the bestowal of an honorary Laurea degree on Professor Leopold B Felsen The symposium was co organized by Professors Innocenzo M Pinto and Vincenzo Galdi in consul tation with Professor Felsen The University of Sannio is a recently installed fast growing university enrolling about 6 500 undergraduate and graduatestu dents in its various programs Law Economics Engineering Sciences The College of Engineering presently comprises 50 faculty members and about 1 500 students The degree bestowal ceremony took place in the morning of February 20 2003 and is documented in English in its entirety here in Part VI of these Proceedings because of the international character of this two day event the program booklet provided for attendees of the degree award ceremony was printed in Italian and English After a brief greeting by Prof Aniello Cimitile the President of the University of Sannio Professor Pinto who had originally proposed Prof Felsen s nomination delivered in Italian a detailed Laudatio a laudatory discourse on the nominee s accomplishments and per sonality This was followed by the nominee s Lectio a retrospective covering his professional life as well as his social and cultural background presented in English in a mixed style laced with humor and comprising prose verses visuals and photographs

Electromagnetic Mixing Formulas and Applications A. H. Sihvola,1999 This book covers the homogenization principles and mixing rules for determining the macroscopic dielectric and magnetic properties of different types of media Sihvola electromagnetics Helsinki U of Technology Finland discusses subjects such as the characteristic differences between a mixture and its parts and ways that mixing results are applied to different materials in geophysics and biology Distributed by INSPEC Annotation copyrighted by Book News Inc Portland OR

From ER to E.T. Rajeev Bansal,2017-01-04 This book covers the study of electromagnetic wave theory and describes how electromagnetic technologies affect our daily lives From ER to ET How Electromagnetic Technologies Are Changing Our Lives explores electromagnetic wave theory including its founders scientific underpinnings ethical issues and applications through history Utilizing a format of short essays this book explains in a balanced and direct style how electromagnetic technologies are changing the world we live in and the future they may create for us Quizzes at the end of each chapter provide the reader with a deeper understanding of the material This book is a valuable resource for microwave engineers of varying levels of experience and for instructors to motivate their students and add depth to their assignments In addition this book Presents topics that investigate all aspects of electromagnetic technology throughout history Explores societal and global issues that relate to the field of electrical engineering emphasized in current ABET accreditation criteria Includes quizzes relevant to every essay and answers which explain technical perspectives Rajeev Bansal PhD is a professor of Electrical and Computer Engineering at the University of Connecticut He is a member of IEEE and the Connecticut Academy of Science and Engineering He is a Fellow of the

Electromagnetics Academy His editing credits include Fundamentals of Engineering Electromagnetics and Engineering Electromagnetics Applications Dr Bansal contributes regular columns to IEEE Antennas and Propagation Magazine and IEEE Microwave Magazine Scientific and Technical Aerospace Reports ,1994-08 *Advances in Geoscience and Remote Sensing* Gary Jedlovac,2009-10-01 Remote sensing is the acquisition of information of an object or phenomenon by the use of either recording or real time sensing device s that is not in physical or intimate contact with the object such as by way of aircraft spacecraft satellite buoy or ship In practice remote sensing is the stand off collection through the use of a variety of devices for gathering information on a given object or area Human existence is dependent on our ability to understand utilize manage and maintain the environment we live in Geoscience is the science that seeks to achieve these goals This book is a collection of contributions from world class scientists engineers and educators engaged in the fields of geoscience and remote sensing Theory and Approach of Information Retrievals from Electromagnetic Scattering and Remote Sensing Ya-Qiu Jin,2006 Theory and Approach of Information Retrievals from Electromagnetic Scattering and Remote Sensing presents some new progress on the theoretical and numerical approaches for information retrieval of the remote sensing via electromagnetic scattering and emission It covers the vector radiative transfer theory for inhomogeneous scatter media polarimetric scattering theory for the synthetic aperture radar SAR imagery and some innovative applications new approach and data validation for current space borne remote sensing programs fast computational method and numerical simulation for bistatic scattering of randomly rough surface with a target presence especially at low grazing angle Some inverse problems in radiative transfer and inverse scattering are also discussed Novel electromagnetics of complex media are also presented Theory and Approach of Information Retrievals from Electromagnetic Scattering and Remote Sensing is intended as a textbook for graduate students and a reference book for scientists to see the most recent progress in the author s research laboratory **Advanced Remote Sensing** Shunlin Liang,Xiaowen Li,Jindi Wang,2012-12-06 Advanced Remote Sensing is an application based reference that provides a single source of mathematical concepts necessary for remote sensing data gathering and assimilation It presents state of the art techniques for estimating land surface variables from a variety of data types including optical sensors such as RADAR and LIDAR Scientists in a number of different fields including geography geology atmospheric science environmental science planetary science and ecology will have access to critically important data extraction techniques and their virtually unlimited applications While rigorous enough for the most experienced of scientists the techniques are well designed and integrated making the book s content intuitive clearly presented and practical in its implementation Comprehensive overview of various practical methods and algorithms Detailed description of the principles and procedures of the state of the art algorithms Real world case studies open several chapters More than 500 full color figures and tables Edited by top remote sensing experts with contributions from authors across the geosciences Electromagnetic Radiations Prutha Prashant Kulkarni,Parikshit N.Mahalle,2025-03-18 The book delivers an

understanding of emission theory and its effects on different strata of life It contains seven chapters including probable remedial measures and solutions to increase reduced radiation life expectancy The text explains important topics such as the compatibility of the human body and wireless communication applications and effectiveness of radiating power energy harvesting green energy solutions and the human nervous system This book Discusses topics related to radiation and electromagnetic emissions including their sources effects and ways to reduce exposure Covers various aspects of the impact of electromagnetic fields on health and the environment including measurement and modeling techniques exposure assessment and health effects Explains electromagnetic emissions and their applications as well as the impact of radiation on living organisms including flora fauna and human beings Provides a detailed analysis of the effects of radiation on animal and plant life Highlights the potential benefits of electromagnetic emissions and provides information on how to mitigate the negative effects of radiation It is primarily written for senior undergraduate graduate students and academic researchers in the fields including electrical engineering electronics communications engineering and physics *Microwaves and Minerals* Atomic Energy of Canada Limited. Research Company,Voss Associates Engineering,Ontario. Ministry of Northern Development and Mines,1990 Review of the microwave heating and dielectric literature on minerals rocks ceramics and related materials Ores are only considered with reference to mineral constituents or mineral processing Microwave heating studies reported in the literature were confined to 2 45 GHz no data were found at 915 MHz Testing methods are discussed and both the real and imaginary components of the dielectric constant were measured as a function of temperature for serpentine nepheline syenite illite clay kaolin vermiculite magnetite talc and talc plus 5 percent binder sodium silicate supplied by the Ontario Ministry of Northern Development and Mines The technology review includes a review of industrial microwave heating applications applications related to minerals and electromagnetically similar materials microwave heating of solids microwave heating studies on rocks and minerals dielectric data on minerals and high temperature dielectric measurement techniques *Geoscience and Remote Sensing* Pasquale Imperatore,Daniele Riccio,2010-02-01 Our planet is nowadays continuously monitored by powerful remote sensors operating in wide portions of the electromagnetic spectrum Our capability of acquiring detailed information on the environment has been revolutionized by revealing its inner structure morphology and dynamical changes The way we now observe and study the evolution of the Earths status has even radically influenced our perception and conception of the world we live in The aim of this book is to bring together contributions from experts to present new research results and prospects of the future developments in the area of geosciences and remote sensing emerging research directions are discussed The volume consists of twenty six chapters encompassing both theoretical aspects and application oriented studies An unfolding perspective on various current trends in this extremely rich area is offered The book chapters can be categorized along different perspectives among others use of active or passive sensors employed technologies and configurations considered scenario on the Earth scientific research area involved in the

studies Remote Compositional Analysis Janice L. Bishop,Jim Bell,Jeffrey E. Moersch,2019-11-28 Comprehensive overview of the spectroscopic mineralogical and geochemical techniques used in planetary remote sensing **Land Surface Remote Sensing in Continental Hydrology** Nicolas Baghdadi,Mehrez Zribi,2016-09-19 The continental hydrological cycle is one of the least understood components of the climate system The understanding of the different processes involved is important in the fields of hydrology and meteorology In this volume the main applications for continental hydrology are presented including the characterization of the states of continental surfaces water state snow cover etc using active and passive remote sensing monitoring the Antarctic ice sheet and land water surface heights using radar altimetry the characterization of redistributions of water masses using the GRACE mission the potential of GNSS R technology in hydrology and remote sensing data assimilation in hydrological models This book part of a set of six volumes has been produced by scientists who are internationally renowned in their fields It is addressed to students engineers Masters PhD engineers and scientists specialists in remote sensing applied to hydrology Through this pedagogical work the authors contribute to breaking down the barriers that hinder the use of Earth observation data Provides clear and concise descriptions of modern remote sensing methods Explores the most current remote sensing techniques with physical aspects of the measurement theory and their applications Provides chapters on physical principles measurement and data processing for each technique described Describes optical remote sensing technology including a description of acquisition systems and measurement corrections to be made *Sensor Technologies for Civil Infrastructures* Jerome P. Lynch,Hoon Sohn,Ming L. Wang,2022-07-19 *Sensor Technologies for Civil Infrastructure Volume 2 Applications in Structural Health Monitoring* Second Edition provides an overview of sensor applications and a new section on future and emerging technologies Part one is made up of case studies in assessing and monitoring specific structures such as bridges towers buildings dams tunnels pipelines and roads The new edition also includes sensing solutions for assessing and monitoring of naval systems Part two reviews emerging technologies for sensing and data analysis including diagnostic solutions for assessing and monitoring sensors unmanned aerial systems and UAV application in post hazard event reconnaissance and site assessment Includes case studies in assessing structures such as bridges buildings super tall towers dams tunnels wind turbines railroad tracks nuclear power plants offshore structures naval systems levees and pipelines Reviews future and emerging technologies and techniques including unmanned aerial systems LIDAR and ultrasonic and infrared sensing Describes latest emerging techniques in data analysis such as diagnostic solutions for assessing and monitoring sensors and big data analysis **Integrated Ground-Based Observing Systems** Domenico Cimini, Frank S. Marzano, Guido Visconti, 2010-09-15 The book is a collection of the lectures delivered during the 7th International Summer School on Atmospheric and Oceanic Sciences ISSAOS titled Integrated Ground Based Observing Systems Applications for Climate Meteorology and Civil Protection Its aim is to contribute to the scientific understanding of basic concepts and applications of integrated ground based observing systems The first part describes the

most common instrumentations showing their strengths and limitations Furthermore strategic plans for the deployment of an observation site are discussed along with an overview of techniques for integrating heterogeneous data The second part introduces cutting edge applications including assimilation in numerical weather prediction climate benchmarking air quality monitoring and meteo hydrological warnings

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