

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

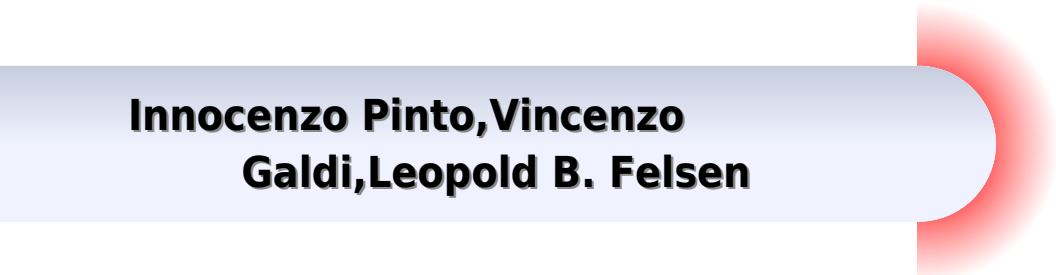
$$\begin{aligned} i_L &= \frac{30}{20 \times 30 + j4 \times 10^4 \times 0.4 \times 10^{-3}(20 + 30)} \frac{25e^{-j45^\circ}}{e^{-j45^\circ}} \\ &= \frac{30 \times 25}{600 + j800} e^{-j45^\circ} \\ &= \frac{7.5}{6 + j8} e^{-j45^\circ} = \frac{7.5e^{-j45^\circ}}{10e^{j53.1^\circ}} = 0.75e^{-j98.1^\circ} \quad (\text{A}). \end{aligned}$$

Finally,

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

Solution To All Ulaby Electromagnetics Problems

**Innocenzo Pinto, Vincenzo
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Modern Electromagnetic Scattering Theory with Applications Andrey V. Osipov, Sergei A. Tretyakov, 2017-01-20

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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

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

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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 consultation with Professor Felsen The University of Sannio is a recently installed fast growing university enrolling about 6 500 undergraduate and graduate students 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 personality 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 **Theory and Approach of Information Retrievals from**

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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

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

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

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web all room air exhausted directly to outdoors air recirculated by room units design relative humidity design temp c operating room positive 4 20 nr no 20 to 60 20 to 24 emergency department public waiting area negative 2 12 yes nr max 65 21 to 24 aii rooms negative 2 12 yes no max 60 21 to 24 patient room nr 2 4 nr nr max 60

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where regular and thorough nationwide cleaning is included

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web even where an open drain system is used the inlets connect to the open drains by means of pipes the provisions apply to

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web excavation and backfilling for drainage works 3 2 1 description this work shall consist of excavation for the construction of surface drains subsoil drains cast in site box culverts and other drainage structures pipe culverts unless otherwise provided in the relevant works specification and shall include furnishing placing compacting

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web mar 24 2020 subsoil drain 5 1 this work shall include supply and installation of subsoil drains constructed in accordance with these specifications at locations as shown on the drawing and or as directed by the s o 5 2 minimum gradient of 1 100 shall be provided for the drain to discharge into existing stormwater system open drain creek or

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web 5 1 surface drainage all road design must incorporate features or elements to drain water off the road without causing siltation and erosion the road drainage is designed so that it will produce the desired velocity of flow that is high enough to prevent silting and lower the erosion potential low water flow velocity

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web 1 1 all drainage works shall be in accordance with the jkr standard specification for drainage works in building projects no 20601 0195 13 or the latest edition published by jkr and the requirements of the msma 1 2 the works shall include the construction of surface drains sumps culverts subsoil

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