

1.7 A wave traveling along a string in the $+x$ direction is given by

$$y_1(x, t) = A \cos(\omega t - \beta x),$$

where $x = 0$ is the end of the string, which is tied rigidly to a wall, as shown in Fig. P1.7. When wave $y_1(x, t)$ arrives at the wall, a reflected wave $y_2(x, t)$ is generated. Hence, at any location on the string, the vertical displacement y_s is the sum of the incident and reflected waves:

$$y_s(x, t) = y_1(x, t) + y_2(x, t).$$

- Write an expression for $y_2(x, t)$, keeping in mind its direction of travel and the fact that the end of the string cannot move.
- Generate plots of $y_1(x, t)$, $y_2(x, t)$ and $y_s(x, t)$ versus x over the range $-2\lambda \leq x \leq 0$ at $\omega t = \pi/4$ and at $\omega t = \pi/2$.

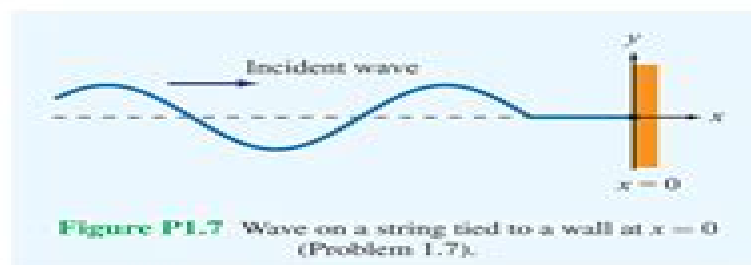


Figure P1.7 Wave on a string tied to a wall at $x = 0$ (Problem 1.7).

Solution:

(a) Since wave $y_2(x, t)$ was caused by wave $y_1(x, t)$, the two waves must have the same angular frequency ω , and since $y_2(x, t)$ is traveling on the same string as $y_1(x, t)$, the two waves must have the same phase constant β . Hence, with its direction being in the negative x -direction, $y_2(x, t)$ is given by the general form

$$y_2(x, t) = B \cos(\omega t + \beta x + \phi_0), \quad (1)$$

where B and ϕ_0 are yet-to-be-determined constants. The total displacement is

$$y_s(x, t) = y_1(x, t) + y_2(x, t) = A \cos(\omega t - \beta x) + B \cos(\omega t + \beta x + \phi_0).$$

Since the string cannot move at $x = 0$, the point at which it is attached to the wall, $y_s(0, t) = 0$ for all t . Thus,

$$y_s(0, t) = A \cos \omega t + B \cos(\omega t + \phi_0) = 0. \quad (2)$$

Solution To All Ulaby Electromagnetics Problems

Andrey V. Osipov, Sergei A. Tretyakov



Solution To All Ulaby Electromagnetics Problems:

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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

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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

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 Workshop/Minisymposium 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 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 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

Teaching Electromagnetics Krishnasamy T. Selvan,Karl F. Warnick,2021-06-18 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 **Global Mapping of Human Settlement** Paolo

Gamba,Martin Herold,2009-06-23 The use of remote sensors for human settlement mapping and monitoring holds great

promise for numerous fields of study including urban planning and global environmental change and sustainability While the potential for this technology is difficult to measure achieving useful results at a regional or global level is but a recent accomplishment G 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

Scientific and Technical Aerospace Reports, 1995 *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 **Optical Fiber Biosensors** Daniele Tosi, Marzhan Sypabekova, Aliya Bekmurzayeva, Carlo Molardi, Kanat Dukenbayev, 2021-11-17 Optical Fiber Biosensors Device Platforms Biorecognition Applications provides a comprehensive overview of the field of fiber optic sensors using an interdisciplinary approach that covers the fabrication of sensing devices and optical hardware the functionalization to perform selective biorecognition and the main applications of biosensors with a present and a future outlook Chapters discuss the principles of light propagation and the sensing devices suitable to perform biosensing with optical fibers the process to functionalize the previous devices to selective biosensing and applications in cells small molecules biomarkers and protein sensing with a birds eye view on the most important results This book provides a coherent picture of fiber optic biosensors from the start the device to the end the application explaining in simple terms what is the whole process for development of a biosensor The book also contains practical material e g commercial instruments fabrication instructions medical standards for biocompatibility that cannot be easily found elsewhere and this is very useful for researchers to plan their development and build their labs Covers the technologies and operating principles of optical fiber devices used in biosensing Contains chapters on the chemistry and operational strategy to functionalize a fiber device to become an effective biosensor Addresses the main applications of fiber optic biosensors and their specialization **Advances in Geoscience and Remote Sensing** Gary Jedlovec, 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 **Radar Scattering and Imaging of Rough Surfaces** Kun-Shan Chen,2020-11-19 Radar scattering and imaging of rough surfaces is an active interdisciplinary area of research with many practical applications in fields such as mineral and resource exploration ocean and physical oceanography military and national defense planetary exploration city planning and land use environmental science and many more By focusing on the most advanced analytical and numerical modeling and describing both forward and inverse modeling Radar Scattering and Imaging of Rough Surfaces Modeling and Applications with MATLAB connects the scattering process to imaging techniques by vivid examples through numerical and experimental demonstrations and provides computer codes and practical uses This book is unique in its simultaneous treatment of radar scattering and imaging Key Features Bridges physical modeling with simulation for resolving radar imaging problems the first comprehensive work to do so Provides excellent basic and advanced information for microwave remote sensing professionals in various fields of science and engineering Covers most advanced analytical and numerical modeling for both backscattering and bistatic scattering Includes MATLAB codes useful not only for academics but also for radar engineers and scientists to develop tools applicable in different areas of earth studies Covering both the theoretical and the practical Radar Scattering and Imaging of Rough Surfaces Modeling and Applications with MATLAB is an invaluable resource for professionals and students using remote sensing to study and explain the Earth and its processes University and research institutes electrical and radar engineers remote sensing image users application software developers students and academics alike will benefit from this book The author Kun Shan Chen is an internationally known and respected engineer and scientist and an expert in the field of electromagnetic modeling *Problems, Perspectives and Challenges of Agricultural Water Management* Manish Kumar,2012-03-09 Food security emerged as an issue in the first decade of the 21st Century questioning the sustainability of the human race which is inevitably related directly to the agricultural water management that has multifaceted dimensions and requires interdisciplinary expertise in order to be dealt with The purpose of this book is to bring together and integrate the subject matter that deals with the equity profitability and irrigation water pricing modelling monitoring and assessment techniques sustainable irrigation development and management and strategies for irrigation water supply and conservation in a single text The book is divided into four sections and is intended to be a comprehensive reference for students professionals and researchers working on various aspects of agricultural water management The book seeks its impact from the diverse nature of content revealing situations from different continents Australia USA Asia Europe and Africa Various case studies have been discussed in the chapters to present a general scenario of the problem perspective and challenges of irrigation water use **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. *Scattering, Two-Volume Set* E. R. Pike, Pierre C. Sabatier, 2001-10-09.

Scattering is the collision of two objects that results in a change of trajectory and energy. For example, in particle physics, such as electrons, photons, or neutrons, are scattered off of a target specimen, resulting in a different energy and direction. In the field of electromagnetism, scattering is the random diffusion of electromagnetic radiation from air masses, is an aid in the long range sending of radio signals over geographic obstacles such as mountains. This type of scattering applied to the field of acoustics is the spreading of sound in many directions due to irregularities in the transmission medium. Volume I of *Scattering* will be devoted to basic theoretical ideas, approximation methods, numerical techniques, and mathematical modeling. Volume II will be concerned with basic experimental techniques, technological practices, and comparisons with relevant theoretical work including seismology, medical applications, meteorological phenomena, and astronomy. This reference will be used by researchers and graduate students in physics, applied physics, biophysics, chemical physics, medical physics, acoustics, geosciences, optics, mathematics, and engineering. This is the first encyclopedic range work on the topic of scattering theory in quantum mechanics, elastodynamics, acoustics, and electromagnetics. It serves as a comprehensive interdisciplinary presentation of scattering and inverse scattering theory and applications in a wide range of scientific fields with an emphasis and details up to date developments. *Scattering* also places an emphasis on the problems that are still in active current research. The first interdisciplinary reference source on scattering to gather all world expertise in this technique. Covers the major aspects of scattering in a common language, helping to widening the knowledge of researchers across disciplines. The list of editors, associate editors, and contributors reads like an international Who's Who in the interdisciplinary field of scattering. *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 Earth's status has even radically influenced our perception and conception of the world we live in. The aim of this book is to

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