

Read Book Electromagnetic Waves And Radiating Systems Solution Manual Pdf For Free

Electromagnetic Waves and Radiating Systems
Electromagnetic Waves And Radiating Systems
2Nd Ed. *Electromagnetic Waves and Radiating Systems* **ELECTROMAGNETIC WAVES AND RADIATING SYSTEMS** *Electromagnetic Vibrations, Waves, and Radiation*
Electromagnetic Wave Propagation, Radiation, and Scattering **Radiation and Propagation of Electromagnetic Waves** *Radiation and Scattering of Waves* **Satellite Communications** Theory of Electromagnetic Wave Propagation *Methods in Electromagnetic Wave Propagation: Radiating waves*

Electromagnetic Waves and Radiating Systems **Tour of the Electromagnetic Spectrum** *Interaction of Electromagnetic Waves with Electron Beams and Plasmas* **Theory of Electromagnetic Wave Propagation** **Electromagnetic Vibrations, Waves, and Radiation** *Geospace Electromagnetic Waves and Radiation* **Electromagnetic Radiation, Scattering, and Diffraction** Electromagnetic Fields and Waves *Radiation of Nonsinusoidal Electromagnetic Waves* Classical Electromagnetic Radiation **An Introduction to Waves, Rays and Radiation in Plasma Media**

Electromagnetic Waves **Medical Physics: Waves & Radiation** University Physics **Methods in Electromagnetic Wave Propagation Radiation and Scattering of Waves Thermal Microwave Radiation Electromagnetic Wave Theory Assessment of the Possible Health Effects of Ground Wave Emergency Network Electromagnetic Waves and Lasers** *Fields and Waves in Communication Electronics* **Scattering of Electromagnetic Waves** *Electromagnetic Wave Theory* **Electromagnetic Waves Optical Waves in Crystals** Waves **Foundations of the Mathematical Theory of Electromagnetic Waves Physics of Waves** The Propagation of Plane Acoustic Waves in a Radiating Gas

Interaction of Electromagnetic Waves with Electron Beams and Plasmas Mar 26 2022 The interaction of electromagnetic waves with matter has always been a fascinating subject of study. As matter in the universe is mostly in the

plasma state, the study of electromagnetic waves in plasmas is of importance to astrophysics, space physics and ionospheric physics. The physics of electromagnetic wave interacting with electron beams and plasmas also serves as a basis for coherent radiation generation such as free electron laser and gyrotron and advanced accelerators. This monograph aims at reviewing the physical processes of linear and nonlinear collective interactions of electromagnetic waves with electron beams and unmagnetized plasmas. Contents: Introduction Basic Equations and Properties of Linear Waves Resonance Absorption The Plasma Wave Excitation by Two Lasers Beating and Particle Acceleration Coherent Emission of Radiation Self Focusing and Filamentation Parametric Instabilities in a Homogeneous Plasma A Nonlinear Schrödinger Equation Parametric Instabilities in an Inhomogeneous Plasma Readership: Applied and plasma physicists,

space scientists, electrical engineers, graduate students in physics and electrical engineers.

keywords:Laser Plasma Interaction;Electromagnetic Waves in Plasmas;Charged Particle Acceleration;Nonlinear Wave Plasma Interaction;Parametric Instabilities in Plasmas;Electromagnetic Emissions from Beams;Free Electron Laser;Waves in Plasmas;Stimulated Raman and Brillouin Scattering in Plasmas;Linear and Nonlinear Waves in Plasmas; "A unique feature of Liu and Tripathi's book is that it gives the mathematical basis of many concepts that are taken for granted in other reviews. Such mathematical treatments are often omitted in, for example, William Kruer's well-known text, *The Physics of Laser Plasma Interaction* (Addison-Wesley, 1987). The new monograph thus fills an important gap. Further, its derivations are reasonably detailed, and key results are displayed for ready use ... The authors have

made important contributions to parametric processes in plasmas and their account is authoritative ... The lucid and sometimes beautiful physical explanations are a pleasure to read. The succinct summaries given at the beginning of each chapter are useful ... is highly recommended to those who wish to launch a serious study of laser-plasma interaction. It should also be useful for a special-topics course at the advanced graduate level." *Physics Today*

Geospace Electromagnetic Waves and Radiation Dec 23 2021 The contributions gathered in this volume provide introductions to current problems in geospace electromagnetic radiation, guides to the associated literature and tutorial reviews of the relevant space physics. Students and scientists working on various aspects of the terrestrial aurora or magnetospheric and near-Earth heliospheric high-frequency waves will find this volume an indispensable companion for their studies.

Radiation and Scattering of Waves Oct 01 2022

As relevant today as it was when it was first published 20 years ago, this book is a classic in the field. Nowhere else can you find more complete coverage of radiation and scattering of waves. The chapter: Asymptotic Evaluation of Integrals is considered the definitive source for asymptotic techniques. This book is essential reading for engineers, physicists and others involved in the fields of electromagnetics and acoustics. It is also an indispensable reference for advanced engineering courses.

Electromagnetic Radiation, Scattering, and Diffraction

Nov 21 2021 Electromagnetic Radiation, Scattering, and Diffraction Discover a graduate-level text for students specializing in electromagnetic wave radiation, scattering, and diffraction for engineering applications In Electromagnetic Radiation, Scattering and Diffraction, distinguished authors Drs. Prabhakar H. Pathak and Robert J. Burkholder deliver a thorough exploration of the behavior of electromagnetic fields in radiation, scattering,

and guided wave environments. The book tackles its subject from first principles and includes coverage of low and high frequencies. It stresses physical interpretations of the electromagnetic wave phenomena along with their underlying mathematics. The authors emphasize fundamental principles and provide numerous examples to illustrate the concepts contained within. Students with a limited undergraduate electromagnetic background will rapidly and systematically advance their understanding of electromagnetic wave theory until they can complete useful and important graduate-level work on electromagnetic wave problems. Electromagnetic Radiation, Scattering and Diffraction also serves as a practical companion for students trying to simulate problems with commercial EM software and trying to better interpret their results. Readers will also benefit from the breadth and depth of topics, such as: Basic equations governing all electromagnetic (EM) phenomena at

macroscopic scales are presented systematically. Stationary and relativistic moving boundary conditions are developed. Waves in planar multilayered isotropic and anisotropic media are analyzed. EM theorems are introduced and applied to a variety of useful antenna problems. Modal techniques are presented for analyzing guided wave and periodic structures. Potential theory and Green's function methods are developed to treat interior and exterior EM problems. Asymptotic High Frequency methods are developed for evaluating radiation Integrals to extract ray fields. Edge and surface diffracted ray fields, as well as surface, leaky and lateral wave fields are obtained. A collective ray analysis for finite conformal antenna phased arrays is developed. EM beams are introduced and provide useful basis functions. Integral equations and their numerical solutions via the method of moments are developed. The fast multipole method is presented. Low frequency breakdown is studied. Characteristic modes are

discussed. Perfect for graduate students studying electromagnetic theory, Electromagnetic Radiation, Scattering, and Diffraction is an invaluable resource for professional electromagnetic engineers and researchers working in this area.

Satellite Communications Aug 31 2022

Extensive revision of the best-selling text on satellite communications — includes new chapters on cubesats, NGSO satellite systems, and Internet access by satellite There have been many changes in the thirty three years since the first edition of Satellite Communications was published. There has been a complete transition from analog to digital communication systems, with analog techniques replaced by digital modulation and digital signal processing. While distribution of television programming remains the largest sector of commercial satellite communications, low earth orbit constellations of satellites for Internet access are set to challenge that dominance. In the third edition,

chapters one through three cover topics that are specific to satellites, including orbits, launchers, and spacecraft. Chapters four through seven cover the principles of digital communication systems, radio frequency communications, digital modulation and multiple access techniques, and propagation in the earth's atmosphere, topics that are common to all radio communication systems. Chapters eight through twelve cover applications that include non-geostationary satellite systems, low throughput systems, direct broadcast satellite television, Internet access by satellite, and global navigation satellite systems. The chapter on Internet access by satellite is new to the third edition, and each of the chapters has been extensively revised to include the many changes in the field since the publication of the second edition in 2003. Two appendices have been added that cover digital transmission of analog signals, and antennas. An invaluable resource for students and professionals alike, this book:

Focuses on the fundamental theory of satellite communications Explains the underlying principles and essential mathematics required to understand the physics and engineering of satellite communications Discusses the expansion of satellite communication systems in areas such as direct-broadcast satellite TV, GPS, and internet access Introduces the rapidly advancing field of small satellites, referred to as SmallSats or CubeSats Provides relevant practice problems based on real-world satellite systems Satellite Communications is required reading for undergraduate and postgraduate students in satellite communications courses and an authoritative reference for engineers working in communications, systems and networks, and satellite operations and management.

Medical Physics: Waves & Radiation May 16 2021

Optical Waves in Crystals May 04 2020 As most crystals are generated by crystals, the interaction between light and crystals is vital to

the success of any optics-related endeavour. This paperback reprint provides a new generation of engineers and physicists with the fundamental knowledge needed to study this complex interaction.

Thermal Microwave Radiation Jan 12 2021

Combines theoretical concepts with experimental results on thermal microwave radiation to increase the understanding of the complex nature of terrestrial media.

Emphasising on radiative transfer models, this book covers the terrestrial aspects, from clear to cloudy atmosphere, precipitation, ocean and land surfaces, vegetation, snow and ice.

Physics of Waves Jan 30 2020

Ideal as a classroom text or for individual study, this unique one-volume overview of classical wave theory covers wave phenomena of acoustics, optics, electromagnetic radiations, and more.

Electromagnetic Vibrations, Waves, and

Radiation Jan 24 2022 The book describes the features that vibrations and waves of all sorts

have in common and includes examples of mechanical, acoustical, and optical manifestations of these phenomena that unite various parts of physics. The main emphasis, however, is on the oscillatory aspects of the electromagnetic field—that is, on the vibrations, waves, radiation, and the interaction of electromagnetic waves with matter. This text was developed over a five-year period during which its authors were teaching the subject. It is the culmination of successful editions of class notes and preliminary texts prepared for their one-semester course at MIT designed for sophomores majoring in physics but taken by students from other departments as well. The book describes the features that vibrations and waves of all sorts have in common and includes examples of mechanical, acoustical, and optical manifestations of these phenomena that unite various parts of physics. The main emphasis, however, is on the oscillatory aspects of the electromagnetic field—that is, on the vibrations,

waves, radiation, and the interaction of electromagnetic waves with matter. The content is designed primarily for the use of second or third year students of physics who have had a semester of mechanics and a semester of electricity and magnetism. The aim throughout is to provide a mathematically unsophisticated treatment of the subject, but one that stresses modern applications of the principles involved. Descriptions of devices that embody such principles—such as seismometers, magnetrons, thermo-nuclear fusion experimental configurations, and lasers—are introduced at appropriate points in the text to illustrate the theoretical concepts. Many illustrations from astrophysics are also included.

Tour of the Electromagnetic Spectrum Apr 26 2022

Foundations of the Mathematical Theory of Electromagnetic Waves Mar 02 2020

Electromagnetic Wave Propagation, Radiation, and Scattering Dec 03 2022 One of

the most methodical treatments of electromagnetic wave propagation, radiation, and scattering—including new applications and ideas Presented in two parts, this book takes an analytical approach on the subject and emphasizes new ideas and applications used today. Part one covers fundamentals of electromagnetic wave propagation, radiation, and scattering. It provides ample end-of-chapter problems and offers a 90-page solution manual to help readers check and comprehend their work. The second part of the book explores up-to-date applications of electromagnetic waves—including radiometry, geophysical remote sensing and imaging, and biomedical and signal processing applications. Written by a world renowned authority in the field of electromagnetic research, this new edition of *Electromagnetic Wave Propagation, Radiation, and Scattering: From Fundamentals to Applications* presents detailed applications with useful appendices, including mathematical

formulas, Airy function, Abel's equation, Hilbert transform, and Riemann surfaces. The book also features newly revised material that focuses on the following topics: Statistical wave theories—which have been extensively applied to topics such as geophysical remote sensing, bio-electromagnetics, bio-optics, and bio-ultrasound imaging Integration of several distinct yet related disciplines, such as statistical wave theories, communications, signal processing, and time reversal imaging New phenomena of multiple scattering, such as coherent scattering and memory effects Multiphysics applications that combine theories for different physical phenomena, such as seismic coda waves, stochastic wave theory, heat diffusion, and temperature rise in biological and other media Metamaterials and solitons in optical fibers, nonlinear phenomena, and porous media Primarily a textbook for graduate courses in electrical engineering, Electromagnetic Wave Propagation, Radiation, and Scattering is also

ideal for graduate students in bioengineering, geophysics, ocean engineering, and geophysical remote sensing. The book is also a useful reference for engineers and scientists working in fields such as geophysical remote sensing, bio-medical engineering in optics and ultrasound, and new materials and integration with signal processing.

Electromagnetic Wave Theory Jul 06 2020 This is a first year graduate text on electromagnetic field theory emphasizing mathematical approaches, problem solving and physical interpretation. Examples deal with guidance, propagation, radiation and scattering of electromagnetic waves, metallic and dielectric wave guides, resonators, antennas and radiating structures, Cerenkov radiation, moving media, plasmas, crystals, integrated optics, lasers and fibers, remote sensing, geophysical probing, dipole antennas and stratified media.

Electromagnetic Wave Theory Dec 11 2020 Electromagnetic Wave Theory, Part 2 contains

the proceedings of a Symposium on Electromagnetic Wave Theory held at Delft, The Netherlands in September 1965. The symposium provided a forum for discussing electromagnetic wave theory and tackled a wide range of topics, from propagation in nonlinear media to electromagnetic wave propagation and amplification in solid-state plasmas. Electromagnetic waves in nonlinear transmission lines with active parameters are also considered, along with the phase dependence of maser active material Q-factor on pump intensity and frequency. Comprised of four sections, this volume begins with an analysis of two modes of propagation that are coupled through parametric modulation in nonlinear media. The discussion then turns to symmetry restrictions in nonlinear, non-absorbing, non-dispersive media; nonlinear interaction between two beams of plane electromagnetic waves in an anisotropic medium; radiation in periodically non-stationary media; and electromagnetic wave

propagation in time-varying media. Subsequent chapters explore the diffraction of electromagnetic waves by plasma structures; resonant electromagnetic scattering from gyrotropic plasmas; scattering and transmission of electromagnetic waves at a statistically rough boundary between two dielectric media; and developments in wavefront reconstruction. This book will be useful for students, practitioners, and researchers in physics.

Assessment of the Possible Health Effects of Ground Wave Emergency Network Nov 09 2020 Written at the request of the U.S. Air Force and Congress, this book evaluates the potential health effects associated with deployment of the Ground Wave Emergency Network (GWEN), a communications system to be used in case of a high-altitude detonation of a nuclear device. The committee, composed of experts in biophysics, physics, risk assessment, epidemiology, and cancer, examines data from laboratory and epidemiologic studies of effects from

electromagnetic fields to determine the likelihood of health effects being caused by the operation of a fully implemented GWEN system.

Radiation and Propagation of

Electromagnetic Waves Nov 02 2022

Radiation and Propagation of Electromagnetic Waves serves as a text in electrical engineering or electrophysics. The book discusses the electromagnetic theory; plane electromagnetic waves in homogenous isotropic and anisotropic media; and plane electromagnetic waves in inhomogenous stratified media. The text also describes the spectral representation of elementary electromagnetic sources; the field of a dipole in a stratified medium; and radiation in anisotropic plasma. The properties and the procedures of Green's function method of solution, axial currents, as well as cylindrical boundaries are also considered. The book further tackles diffraction by cylindrical structures and apertures on cylindrical structures. Students taking electrical

engineering or electrophysics will find the book useful.

Electromagnetic Waves And Radiating Systems
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Classical Electromagnetic Radiation Aug 19 2021 Newly corrected, this highly acclaimed text is suitable for advanced physics courses. The authors present a very accessible macroscopic view of classical electromagnetics that emphasizes integrating electromagnetic theory with physical optics. The survey follows the historical development of physics, culminating in the use of four-vector relativity to fully integrate electricity with magnetism. Corrected and emended reprint of the Brooks/Cole Thomson Learning, 1994, third edition.

Methods in Electromagnetic Wave Propagation: Radiating waves Jun 28 2022

Electromagnetic Waves and Radiating Systems
May 08 2023

Theory of Electromagnetic Wave

Propagation Feb 22 2022 Interfacing physics and electrical engineering, this graduate-level text reveals the inherent simplicity of the basic ideas of electromagnetic wave propagation and antennas and their logical development from Maxwell field equations. Topics include radiation from monochromatic sources in unbounded regions, electromagnetic waves in a plasma medium, Doppler effect, much more. 1965 edition.

Methods in Electromagnetic Wave

Propagation Mar 14 2021 Co-published with Oxford University Press. This new edition takes account of the most recent analytical progress that has been made in the field of electromagnetic wave propagation and the impact of the wider availability of powerful computers. The aim of this book is to develop a suitable framework of theory and numerical analysis with applications to various aspects of the propagation of electromagnetic waves. The conjugate gradient method and CGFFT are given

extensive treatment. The coverage of finite methods has been expanded and conforming finite elements particularly appropriate to electromagnetic applications are described. New topics have been added to this edition including Sobolev spaces, vector optimization, absorbing boundary conditions, and surface radiation conditions.

[The Propagation of Plane Acoustic Waves in a Radiating Gas](#) Dec 31 2019

Electromagnetic Waves and Lasers Oct 09 2020 This book reviews basic electromagnetic (EM) wave theory and applies it specifically to lasers in order to give the reader not only tangible examples of how the theory is manifested in real life, but also practical knowledge about lasers, and their operation and usage. The latter can be useful for those involved with using lasers. As a short treatise on this subject matter, this book is not intended to dwell deeply into the details of EM waves nor lasers. A bibliography is provided for those who

wish to explore in more depth the topics covered in this book. Rather the aim of this book is to offer a quick overview, which will allow the reader to gain a competent general understanding of EM waves and lasers.

ELECTROMAGNETIC WAVES AND RADIATING SYSTEMS Feb 05 2023

University Physics Apr 14 2021 University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope

and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

VOLUME II Unit 1: Thermodynamics Chapter 1: Temperature and Heat Chapter 2: The Kinetic Theory of Gases Chapter 3: The First Law of Thermodynamics Chapter 4: The Second Law of

Thermodynamics Unit 2: Electricity and Magnetism Chapter 5: Electric Charges and Fields Chapter 6: Gauss's Law Chapter 7: Electric Potential Chapter 8: Capacitance Chapter 9: Current and Resistance Chapter 10: Direct-Current Circuits Chapter 11: Magnetic Forces and Fields Chapter 12: Sources of Magnetic Fields Chapter 13: Electromagnetic Induction Chapter 14: Inductance Chapter 15: Alternating-Current Circuits Chapter 16: Electromagnetic Waves

Radiation and Scattering of Waves Feb 10 2021 This world-renowned classic by Professors Felsen and Marcuvitz continues to abound in timely and useful material over 20 years after it was originally published. The book contains indispensable information that remains difficult to find anywhere else in the electromagnetics and acoustics literature, and it will be useful for many years to come. Of particular interest is Chapter 4, Asymptotic Evaluation of Integrals, which is appreciated and cited worldwide. It

contains an in-depth description of asymptotic techniques and formulas useful to both engineers and physicists.

Electromagnetic Waves Jun 16 2021 Adapted from a successful and thoroughly field-tested Italian text, the first edition of *Electromagnetic Waves* was very well received. Its broad, integrated coverage of electromagnetic waves and their applications forms the cornerstone on which the author based this second edition. Working from Maxwell's equations to applications in optical communications and photonics, *Electromagnetic Waves, Second Edition* forges a link between basic physics and real-life problems in wave propagation and radiation. Accomplished researcher and educator Carlo G. Someda uses a modern approach to the subject. Unlike other books in the field, it surveys all major areas of electromagnetic waves in a single treatment. The book begins with a detailed treatment of the mathematics of Maxwell's equations. It follows

with a discussion of polarization, delves into propagation in various media, devotes four chapters to guided propagation, links the concepts to practical applications, and concludes with radiation, diffraction, coherence, and radiation statistics. This edition features many new and reworked problems, updated references and suggestions for further reading, a completely revised appendix on Bessel functions, and new definitions such as antenna effective height. Illustrating the concepts with examples in every chapter, *Electromagnetic Waves, Second Edition* is an ideal introduction for those new to the field as well as a convenient reference for seasoned professionals.

Electromagnetic Vibrations, Waves, and Radiation Jan 04 2023 The book describes the features that vibrations and waves of all sorts have in common and includes examples of mechanical, acoustical, and optical manifestations of these phenomena that unite various parts of physics. The main emphasis,

however, is on the oscillatory aspects of the electromagnetic field—that is, on the vibrations, waves, radiation, and the interaction of electromagnetic waves with matter. This text was developed over a five-year period during which its authors were teaching the subject. It is the culmination of successful editions of class notes and preliminary texts prepared for their one-semester course at MIT designed for sophomores majoring in physics but taken by students from other departments as well. The book describes the features that vibrations and waves of all sorts have in common and includes examples of mechanical, acoustical, and optical manifestations of these phenomena that unite various parts of physics. The main emphasis, however, is on the oscillatory aspects of the electromagnetic field—that is, on the vibrations, waves, radiation, and the interaction of electromagnetic waves with matter. The content is designed primarily for the use of second or third year students of physics who have had a

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Theory of Electromagnetic Wave Propagation Jul 30 2022 Clear, coherent work for graduate-level study discusses the Maxwell field equations, radiation from wire antennas, wave aspects of radio-astronomical antenna theory, the Doppler effect, and more.

Electromagnetic Waves Jun 04 2020

Electromagnetic Fields and Waves Oct 21 2021

This comprehensive introduction to classical electromagnetic theory covers the major

aspects, including scalar fields, vectors, laws of Ohm, Joule, Coulomb, Faraday, Maxwell's equation, and more. With numerous diagrams and illustrations.

Waves Apr 02 2020 From sound waves to gravitational waves, and from waves of light to crashing rollers on the ocean, Mike Goldsmith explores the fundamental features shared by all waves in the natural world, and considers the range of phenomena resulting from wave motion, including reflection, diffraction, and polarization in light, and beats and echoes in sound.

Fields and Waves in Communication Electronics Sep 07 2020 This comprehensive revision begins with a review of static electric and magnetic fields, providing a wealth of results useful for static and time-dependent fields problems in which the size of the device is small compared with a wavelength. Some of the static results such as inductance of transmission lines calculations can be used for microwave

frequencies. Familiarity with vector operations, including divergence and curl, are developed in context in the chapters on statics. Packed with useful derivations and applications.

An Introduction to Waves, Rays and Radiation in Plasma Media Jul 18 2021

Radiation of Nonsinusoidal Electromagnetic Waves Sep 19 2021

Electromagnetic Waves and Radiating Systems Mar 06 2023

Electromagnetic Waves and Radiating Systems May 28 2022

Scattering of Electromagnetic Waves Aug 07 2020 A timely and authoritative guide to the state of the art of wave scattering. Scattering of Electromagnetic Waves offers in three volumes a complete and up-to-date treatment of wave scattering by random discrete scatterers and rough surfaces. Written by leading scientists who have made important contributions to wave scattering over three decades, this new work explains the principles, methods, and

applications of this rapidly expanding, interdisciplinary field. It covers both introductory and advanced material and provides students and researchers in remote sensing as well as imaging, optics, and electromagnetic theory with a one-stop reference to a wealth of current research results. Plus, Scattering of Electromagnetic Waves contains detailed discussions of both analytical and numerical methods, including cutting-edge techniques for the recovery of earth/land parametric information. The three volumes are entitled respectively Theories and Applications, Numerical Simulation, and Advanced Topics. In the first volume, Theories and Applications, Leung Tsang (University of Washington), Jin Au Kong (MIT), and Kung-Hau Ding (Air Force Research Lab) cover: * Basic theory of electromagnetic scattering * Fundamentals of random scattering * Characteristics of discrete scatterers and rough surfaces * Scattering and emission by layered media * Single scattering

and applications * Radiative transfer theory and solution techniques * One-dimensional random rough surface scattering

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