

Electromagnetic Scattering in Disperse Media

Inhomogeneous and Anisotropic Particles

V. A. Babenko,
L. G. Astafyeva and
V. N. Kuzmin



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Electromagnetic Scattering In Dispersed Media

Andrea Benedetto, Lara Pajewski



Electromagnetic Scattering In Dispersed Media:

Electromagnetic Scattering in Disperse Media Victor A. Babenko, Ludmila G. Astafyeva, Vladimir Nikolaevich Kuz'min, 2003-09-12 Pays considerable attention to various aspects of light absorption inside particles including internal field distributions MDR resonances and absorption in restricted regions inside particles It contains many results and more than 100 figures computed for polydisperse particle systems and algorithms and provides the possibility to use them web site

Electromagnetic Scattering by Particles and Particle Groups Michael I. Mishchenko, 2014-04-24 This self contained and accessible book provides a thorough introduction to the basic physical and mathematical principles required in studying the scattering and absorption of light and other electromagnetic radiation by particles and particle groups For the first time the theories of electromagnetic scattering radiative transfer and weak localization are combined into a unified consistent branch of physical optics directly based on the Maxwell equations A particular focus is given to key aspects such as time and ensemble averaging at different scales ergodicity and the physical nature of measurements afforded by actual photopolarimeters Featuring over 120 end of chapter exercises with hints and solutions provided this clear one stop resource is ideal for self study or classroom use and will be invaluable to both graduate students and researchers in remote sensing physical and biomedical optics optical communications optical particle characterization atmospheric physics and astrophysics

Multiple Scattering of Light by Particles Michael I. Mishchenko, Larry D. Travis, Andrew A. Lacis, 2006-04-27 This monograph on multiple scattering of light by small particles is an ideal resource for science professionals engineers and graduate students **Springer Series in Light Scattering** Alexander Kokhanovsky, 2021-04-24 This book is aimed at description of recent progress in radiative transfer atmospheric remote sensing snow optics and light scattering Light scattering radiative transfer and atmospheric optics research community will greatly benefit from the publication of this book

Remote Sensing of Turbulence Victor Raizer, 2021-10-04 This book offers a unique multidisciplinary integration of the physics of turbulence and remote sensing technology Remote Sensing of Turbulence provides a new vision on the research of turbulence and summarizes the current and future challenges of monitoring turbulence remotely The book emphasizes sophisticated geophysical applications detection and recognition of complex turbulent flows in oceans and the atmosphere Through several techniques based on microwave and optical IR observations the text explores the technological capabilities and tools for the detection of turbulence their signatures and variability FEATURES Covers the fundamental aspects of turbulence problems with a broad geophysical scope for a wide audience of readers Provides a complete description of remote sensing capabilities for observing turbulence in the earth s environment Establishes the state of the art remote sensing techniques and methods of data analysis for turbulence detection Investigates and evaluates turbulence detection signatures their properties and variability Provides cutting edge remote sensing applications for space based monitoring and forecasts of turbulence in oceans and the atmosphere This book is a great resource for applied physicists the professional

remote sensing community ecologists geophysicists and earth scientists

Convective Heat and Mass Transfer in Porous Media Sadik Kakaç, Birol Kilkis, Frank A. Kulacki, Faruk Annç, 2012-12-06 The rapid growth of literature on convective heat and mass transfer through porous media has brought both engineering and fundamental knowledge to a new state of completeness and depth. Additionally, several new questions of fundamental merit have arisen in several areas which bear direct relation to further advancement of basic knowledge and applications in this field. For example, the growth of fundamental heat transfer data and correlations for engineering use for saturated media has now reached the point where the relations for heat transfer coefficients and flow parameters are known well enough for design purposes. Multiple flow field regimes in natural convection have been identified in several important enclosure geometries. New questions have arisen on the nature of equations being used in theoretical studies, i.e., the validity of Darcy assumption is being brought into question. Wall effects in high and low velocity flow fields have been found to play a role in predicting transport coefficients. The formulation of transport problems in fractured media are being investigated as both an extension of those in a homogeneous medium and for application in engineering systems in geologic media and problems on saturated media are being addressed to determine their proper formulation and solution. The long standing problem of how to adequately formulate and solve problems of multi phase heat and mass transfer in heterogeneous media is important in the technologies of chemical reactor engineering and enhanced oil recovery.

Introduction to Nanophotonics Sergey V. Gaponenko, 2010-04-08 Nanophotonics is where photonics merges with nanoscience and nanotechnology and where spatial confinement considerably modifies light propagation and light-matter interaction. Describing the basic phenomena, principles, experimental advances and potential impact of nanophotonics, this graduate level textbook is ideal for students in physics, optical and electronic engineering and materials science. The textbook highlights practical issues, material properties and device feasibility and includes the basic optical properties of metals, semiconductors and dielectrics. Mathematics is kept to a minimum and theoretical issues are reduced to a conceptual level. Each chapter ends in problems so readers can monitor their understanding of the material presented. The introductory quantum theory of solids and size effects in semiconductors are considered to give a parallel discussion of wave optics and wave mechanics of nanostructures. The physical and historical interplay of wave optics and quantum mechanics is traced. Nanoplasmonics, an essential part of modern photonics, is also included.

Atmospheric Aerosols Claudio Tomasi, Sandro Fuzzi, Alexander Kokhanovsky, 2017-02-01 Ein Blick auf die morphologischen, physikalischen und chemischen Eigenschaften von Aerosolen aus den unterschiedlichsten natürlichen und anthropogenen Quellen trägt zum besseren Verständnis der Rolle der Aerosolpartikel bei der Streuung und Absorption kurz- und langwelliger Strahlung bei. Dieses Fachbuch bietet Informationen, die sonst schwer zu finden sind und vermittelt ausführlich die Kenntnisse, die erforderlich sind, um die mikrophysikalischen, chemischen und Strahlungsparameter zu charakterisieren, die bei der Wechselwirkung von Sonnen- und Erdstrahlen so besonders wichtig sind. Besonderes Augenmerk

liegt auf den indirekten Auswirkungen von Aerosolen auf das Klima im Rahmen des komplexen Systems aus Aerosolen Wolken und der Atmosphäre Auch geht es vorrangig um die Wirkungen natürlicher und anthropogener Aerosole auf die Luftqualität und die Umwelt auf die menschliche Gesundheit und unser kulturelles Erbe Mit einem durchgängig lösungsorientierten Ansatz werden nicht nur die Probleme und Gefahren dieser Aerosole behandelt sondern auch praktikable Lösungswege aufgezeigt

Advances in Passive Microwave Remote Sensing of Oceans Victor Raizer, 2017-03-27 This book demonstrates the capabilities of passive microwave technique for enhanced observations of ocean features including the detection of sub surface events and or disturbances while laying out the benefits and boundaries of these methods It represents not only an introduction and complete description of the main principles of ocean microwave radiometry and imagery but also provides guidance for further experimental studies Furthermore it expands the analysis of remote sensing methods models and techniques and focuses on a high resolution multiband imaging observation concept Such an advanced approach provides readers with a new level of geophysical information and data acquisition granting the opportunity to improve their expertise on advanced microwave technology now an indispensable tool for diagnostics of ocean phenomena and disturbances

Light Scattering Media Optics Alex A. Kokhanovsky, 2004-08-05 The theory of the scattering of light by small particles is very important in a wide range of applications in atmospheric physics and atmospheric optics ocean optics remote sensing astronomy and astrophysics and biological optics This book summarises current knowledge of the optical properties of single small particles and natural light scattering media such as snow clouds foam aerosols etc The book considers both single and multiple light scattering regimes together with light scattering and radiative transfer in close packed media The third edition incorporates new findings in the area of light scattering media optics in an updated version of the text

Scientific and Technical Aerospace Reports, 1995

Advances in Silicon Solar Cells Shadia Ikhmayies, 2018-01-10 This book provides a review of all types of silicon solar cells The scope includes monocrystalline Si solar cells polycrystalline and amorphous thin film silicon solar cells and tandem solar cells Production treatment and development of these devices are reviewed Limitations of these devices design optimization testing and fabrication methods are covered In addition current status and future prospects for the further development of silicon solar cells are addressed Special emphasis is given to methods of attaining high efficiency and thereby cost effective solar power The aim of the book is to provide the reader with a complete overview about the recent advances in the structure and technology of all generations of silicon solar cells

Tenth International Conference on Nonlinear Optics of Liquid and Photorefractive Crystals Gertruda V. Klimusheva, Andrey G. Iljin, Sergey Kostyukevych, 2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Journal of Research of the National Bureau

of Standards United States. National Bureau of Standards,1960 *Introduction to Photonic and Phononic Crystals and Metamaterials* Arthur R. McGurn,2022-06-01 Introduction to Photonic and Phononic Crystals and Metamaterials by Arthur R McGurn presents a study of the fundamental properties of optical and acoustic materials which have been of recent interest in nanoscience and device technology The level of the presentations is appropriate for advanced undergraduates beginning graduate students and researchers not directly involved in the field References are given to guide the reader to more advanced study in these fields Discussions of the physics of photonic and phononic crystals focus on the transmission properties of optical and acoustic radiation arising from their diffractive interaction in these engineered materials The frequency transmission and non transmission bands of radiation are explained in terms of the symmetry properties of the photonic and phononic artificial crystal structures Basic applications of these properties to a variety of their technological applications are examined The physics of metamaterials is discussed along with their relationships to the ideas of resonance Properties of negative index of refraction perfect lens and unusual optical effects the new optics of metamaterial media makes available are examined Related effects in acoustics are also covered Basic principles of surface acoustic and electromagnetic waves are explained These form an introduction to the fundamental ideas of the recently developing fields of plasmonics and surface acoustics *Ultra-Wideband, Short-Pulse Electromagnetics 6* Eric L. Mokole,Mark Kragalott,Karl R. Gerlach,2003-12-31 Ultra Wideband Short Pulse Electromagnetics 6 was held at theAmerican Electromagnetics 2002 conference June 3 7 2002 at the U S Naval Academy in Annapolis Maryland Topics include UWB RadarSystems UWB Antennas Scattering Pulsed Power Short PulseMeasurement Techniques Time Domain Computation Techniques Time Domain Signal Processing UWB Polarimetry UWB Sensing ofTerrain Wavelets Target Detection Propagation Underground Electromagnetic Theory New Canonical Problems Benchmark Solutions Signal Processing **Civil Engineering Applications of Ground Penetrating Radar** Andrea Benedetto,Lara Pajewski,2015-04-07 This book based on Transport and Urban Development COST Action TU1208 presents the most advanced applications of ground penetrating radar GPR in a civil engineering context with documentation of instrumentation methods and results It explains clearly how GPR can be employed for the surveying of critical transport infrastructure such as roads pavements bridges and tunnels and for the sensing and mapping of underground utilities and voids Detailed attention is also devoted to use of GPR in the inspection of geological structures and of construction materials and structures including reinforced concrete steel reinforcing bars and pre post tensioned stressing ducts Advanced methods for solution of electromagnetic scattering problems and new data processing techniques are also presented Readers will come to appreciate that GPR is a safe advanced non destructive and noninvasive imaging technique that can be effectively used for the inspection of composite structures and the performance of diagnostics relevant to the entire life cycle of civil engineering works *Journal of Research* United States. National Bureau of Standards,1965 **U.S. Government Research & Development Reports** ,1971 **Foundations of Atmospheric**

Remote Sensing Dmitry Efremenko, Alexander Kokhanovsky, 2021-05-18 Theoretical foundations of atmospheric remote sensing are electromagnetic theory radiative transfer and inversion theory This book provides an overview of these topics in a common context compile the results of recent research as well as fill the gaps where needed The following aspects are covered principles of remote sensing the atmospheric physics foundations of the radiative transfer theory electromagnetic absorption scattering and propagation review of computational techniques in radiative transfer retrieval techniques as well as regularization principles of inversion theory As such the book provides a valuable resource for those who work with remote sensing data and want to get a broad view of theoretical foundations of atmospheric remote sensing The book will be also useful for students and researchers working in such diverse fields like inverse problems atmospheric physics electromagnetic theory and radiative transfer

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features sizes 4 ½ 16 enhanced internal flow low hoop stresses on coupling thanks to tighter thread tolerances 20 bevel for smooth horizontal installation enhanced structural capacity same as pipe body

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api buttress btc connections are available in pipe sizes 4 1 2 through 20 figure 1 2 btc connections larger than 13 3 8 od can be subject to cross threading extreme care in the field can ensure the proper make up of the larger sizes the shear resistant large thread cross section and easy running characteristics of btc make it

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dec 1 2017 this specification covers dimensions tolerances and marking requirements for api threads and the gauges that control the acceptance criteria for the threads thread element gauges instruments and requirements for the inspection of threads for line pipe round thread casing round thread tubing and buttress casing connections are included

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btc 215 90 263 52 15 82 8 5 8 stc 244 48 196 85 16 23 8 5 8 ltc 244 48 254 00 21 67 8 5 8 btc 244 48 269 88 20 86 9 5 8 stc 269 88 196 85 18 03 9 5 8 ltc 269 88 266 70 25 45 9 5 8 btc 269 88 269 88 23 16 10 3 4 stc 298 45 203 20 20 78 10 3 4 btc 298 45 269 88 25 74 11 3 4 stc 323 85 203 20 22 64 11 3 4

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the btc thread has higher joint and bending strengths than ltc or stc as a result this thread is often used in deeper wells where higher hook loads are experienced thread compound must also be used to obtain a seal with btc btc is also run in horizontal wells where doglegs can cause high bending loads on larger casings

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1 to avoid cross threading stab pipe in a smooth controlled fashion ensuring the pipe is vertical when doing so continue to support and stabilise the pipe throughout the stabbing and make up operation 2 upon commencement of initial rotation use low rpm 5 rpm or below in order to ensure the pipe has not cross threaded during stabbing 3

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btc has a square thread with a flat root and crest a runout design and five buttress threads per inch each thread type is suited for a specific well condition stc is a good choice for shorter length casing applications that do not involve high axial loads or bending

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the two steps are identified as 1 the 75 percent shoulder width method 2 the mismatched outside diameter method the two methods are fully described in annex i 6 2 3 other considerations table 3 table a 3 have bevel diameters that cover a range from a suggested minimum od to a maximum od the tables also contain a reference id

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api compatibility the connection s buttress thread profile makes it fully compatible with standard api buttress connections by being api compatible in both pin and box operators can use standard api accessories and draw on a wide range of threading and repair shops providing flexibility and efficiency

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oil threads vertical api thread form pitch tpi l i c in taper ipf external ordering code y t connection no or size v 0 040 5 27 5 8 3 tnmb 54 er 5 api 403 2 5 6 4 2 3 8 4 1 2 reg v 0 038r 4 27 5 8 2 tnmc 55 er 4 api 382 2 8 7 94 nc23 nc50 v 0 038r 4 27 5 8 3 tnmc 55 er 4 api 383 2 8 7 94 nc56 nc77 v 0 050 4 27 5 8 2 tnmc 55 er 4 api 502 3

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inspection criteria for all api connections is as outlined in api rp 5a5 ensure the complete thread area has no tears gouges or raised metal black crested threads within the complete thread area must not exceed 25 of the circumference of two 2 threads complete thread length is indicated in api rp 5b1

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btc buttress threading this thread is designed to improve axial tensile or axial compressive load capacity and to provide leakage resistance ltc stc and btc are the same in appearance how to distinguish them that depends the outside diameter and application what s the use of ltc stc and btc

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api couplings and threads must comply with c 32 and c 33 or e 32 and e 33 below are two common api coupling dimensions btc for casing and eue for tubing api buttress casing couplings dimensions btc casing coupling api external upset tubing coupling dimensions eue tubing coupling other requirements in api 5ct standard 1 appearance quality

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