

Jean-Claude Nédélec

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Acoustic and Electromagnetic Equations

Integral Representations
for Harmonic Problems



Springer

Acoustic And Electromagnetic Equations Integral Representations For Harmonic Problems Applied Mathematical Sciences

**Hashimoto, M., Mithat Idemen, Oleg
Aleksandrovich Tret'iaĸov**



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Acoustic and Electromagnetic Equations Jean-Claude Nedelec, 2001-03-30 Acoustic and electromagnetic waves underlie a range of modern technology from sonar radio and television to microwave heating and electromagnetic compatibility analysis This book written by an international researcher presents some of the research in a complete way It is useful for graduate students in mathematics physics and engineering

Acoustic and Electromagnetic Equations Jean-Claude Nedelec, 2013-06-29 This book is devoted to the study of the acoustic wave equation and of the Maxwell system the two most common wave equations encountered in physics or in engineering The main goal is to present a detailed analysis of their mathematical and physical properties Wave equations are time dependent However use of the Fourier transform reduces their study to that of harmonic systems the harmonic Helmholtz equation in the case of the acoustic equation or the harmonic Maxwell system This book concentrates on the study of these harmonic problems which are a first step toward the study of more general time dependent problems In each case we give a mathematical setting that allows us to prove existence and uniqueness theorems We have systematically chosen the use of variational formulations related to considerations of physical energy We study the integral representations of the solutions These representations yield several integral equations We analyze their essential properties We introduce variational formulations for these integral equations which are the basis of most numerical approximations Different parts of this book were taught for at least ten years by the author at the post graduate level at Ecole Poly technique and the University of Paris 6 to students in applied mathematics The actual presentation has been tested on them I wish to thank them for their active and constructive participation which has been extremely useful and I apologize for forcing them to learn some geometry of surfaces

Mathematical and Statistical Methods for Multistatic Imaging Habib Ammari, Josselin Garnier, Wenjia Jing, Hyeonbae Kang, Mikyoung Lim, Knut Sølna, Han Wang, 2013-11-29 This book covers recent mathematical numerical and statistical approaches for multistatic imaging of targets with waves at single or multiple frequencies The waves can be acoustic elastic or electromagnetic They are generated by point sources on a transmitter array and measured on a receiver array An important problem in multistatic imaging is to quantify and understand the trade offs between data size computational complexity signal to noise ratio and resolution Another fundamental problem is to have a shape representation well suited to solving target imaging problems from multistatic data In this book the trade off between resolution and stability when the data are noisy is addressed Efficient imaging algorithms are provided and their resolution and stability with respect to noise in the measurements analyzed It also shows that high order polarization tensors provide an accurate representation of the target Moreover a dictionary matching technique based on new invariants for the generalized polarization tensors is introduced Matlab codes for the main algorithms described in this book are provided Numerical illustrations using these codes in order

to highlight the performance and show the limitations of numerical approaches for multistatic imaging are presented

Nonlinear Analysis, Geometry and Applications Diaraf Seck, Kinvi Kangni, Philibert Nang, Marie Salomon Sambou, 2022-10-09 This book gathers twenty two papers presented at the second NLAGA BIRS Symposium which was held at Cap Skirring and at the Assane Seck University in Ziguinchor Senegal on January 25 30 2022 The five day symposium brought together African experts on nonlinear analysis and geometry and their applications as well as their international partners to present and discuss mathematical results in various areas The main goal of the NLAGA project is to advance and consolidate the development of these mathematical fields in West and Central Africa with a focus on solving real world problems such as coastal erosion pollution and urban network and population dynamics problems The book addresses a range of topics related to partial differential equations geometric analysis geometric structures dynamics optimization inverse problems complex analysis algebra algebraic geometry control theory stochastic approximations and modelling

Progress in Computational Physics (PiCP): Volume 1 Matthias Ehrhardt, 2010 Progress in Computational Physics is a new e book series devoted to recent research trends in computational physics It contains chapters contributed by outstanding experts of modeling of physical problems The series focuses on interdisciplinary computat **Parallel Processing and Applied Mathematics** Roman Wyrzykowski, Ewa Deelman, Jack Dongarra, Konrad Karczewski, Jacek Kitowski, Kazimierz Wiatr, 2016-04-05 This two volume set LNCS 9573 and LNCS 9574 constitutes the refereed proceedings of the 11th International Conference of Parallel Processing and Applied Mathematics PPAM 2015 held in Krakow Poland in September 2015 The 111 revised full papers presented in both volumes were carefully reviewed and selected from 196 submissions The focus of PPAM 2015 was on models algorithms and software tools which facilitate efficient and convenient utilization of modern parallel and distributed computing architectures as well as on large scale applications including big data problems

Modeling and Inverse Problems in Imaging Analysis Bernard Chalmond, 2003-01-14 More mathematicians have been taking part in the development of digital image processing as a science and the contributions are reflected in the increasingly important role modeling has played solving complex problems This book is mostly concerned with energy based models Most of these models come from industrial projects in which the author was involved in robot vision and radiography tracking 3D lines radiographic image processing 3D reconstruction and tomography matching deformation learning Numerous graphical illustrations accompany the text **Computational Methods in Applied Mathematics**, 2004 **Rendiconti di**

matematica e delle sue applicazioni, 2004 **Mathematical Reviews**, 2004 *American Book Publishing Record*, 2001 *SIAM Journal on Scientific Computing*, 2009 **Inverse Acoustic and Electromagnetic Scattering Theory** David Colton, Rainer Kress, 2012-10-26 The inverse scattering problem is central to many areas of science and technology such as radar and sonar medical imaging geophysical exploration and nondestructive testing This book is devoted to the mathematical and numerical analysis of the inverse scattering problem for acoustic and electromagnetic waves In this third

edition new sections have been added on the linear sampling and factorization methods for solving the inverse scattering problem as well as expanded treatments of iteration methods and uniqueness theorems for the inverse obstacle problem. These additions have in turn required an expanded presentation of both transmission eigenvalues and boundary integral equations in Sobolev spaces. As in the previous editions emphasis has been given to simplicity over generality thus providing the reader with an accessible introduction to the field of inverse scattering theory. Review of earlier editions Colton and Kress have written a scholarly state of the art account of their view of direct and inverse scattering. The book is a pleasure to read as a graduate text or to dip into at leisure. It suggests a number of open problems and will be a source of inspiration for many years to come. SIAM Review September 1994. This book should be on the desk of any researcher any student any teacher interested in scattering theory. Mathematical Intelligencer June 1994 **Forthcoming Books** Rose Arny, 2001

Analytical and Numerical Methods in Electromagnetic Wave Theory Hashimoto, M., Mithat Idemen, Oleg Aleksandrovich Tret'iakov, 1993 *Computational Methods for Acoustics Problems* Frédéric Magoulès, 2008. This volume presents in eleven chapters key computational methods for acoustics and vibro acoustics problems. Each chapter written by different authors presents a state of the art of well established or innovative methods techniques or algorithms. A bibliography is included at the end of each chapter. BOOK JACKET Applied Science & Technology Index, 1983

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