

Topics in Current Physics

Inverse Source Problems in Optics

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Springer-Verlag
Berlin Heidelberg New York

Inverse Source Problems In Optics Topics In Current Physics

Manuel Nieto Vesperinas



Inverse Source Problems In Optics Topics In Current Physics:

Inverse Source Problems in Optics H.P. Baltes, 1978-11 With contributions by numerous experts [Inverse Source Problems](#) Victor Isakov, 1990 A careful exposition of a research field of current interest This includes a brief survey of the subject and an introduction to recent developments and unsolved problems **Inverse Scattering Problems in Optics** H.P. Baltes, 2012-12-06 When in the spring of 1979 H P Baltes presented me with the precursor of this volume the book on Inverse Source Problems in Optics I expressed my gratitude in a short note which in translation reads Dear Dr Baltes the mere title of your unexpected gift evokes memories of a period which in the terminology of your own contribution would be described as the Stone Age of the Inverse Problem Those were pleasant times Walter Kohn and I lived in a cave by ourselves drew pictures on the walls and nobody seemed to care Now however Inversion has become an Industry which I contemplate with as much bewilderment as a surviving Tasmanian aborigine gazing at a modern oil refinery with its towers its flares and the confusing maze of its tubes The present volume makes me feel even more aboriginal impossible for me to fathom its content What I can point out however is one of the forgotten origins of the Inverse Scattering Problem of Quantum Mechanics Werner Heisenberg's S Matrix Theory of 1943 This grandiose scheme had the purpose of eliminating the notion of the Hamiltonian in favour of the scattering operator If Successful it would have done away once and for all with any kind of inverse problem **Inverse Problems** Giorgio Talenti, 2006-11-14 **Inverse Problems in Differential Equations** G. Anger, 1990-12-31 No detailed description available for Inverse Problems in Differential Equations **Inverse Problems and Inverse Scattering of Plane Waves** D.N. Roy, L. S. Couchman, 2001-10-04 The purpose of this text is to present the theory and mathematics of inverse scattering in a simple way to the many researchers and professionals who use it in their everyday research While applications range across a broad spectrum of disciplines examples in this text will focus primarily but not exclusively on acoustics The text will be especially valuable for those applied workers who would like to delve more deeply into the fundamentally mathematical character of the subject matter Practitioners in this field comprise applied physicists engineers and technologists whereas the theory is almost entirely in the domain of abstract mathematics This gulf between the two if bridged can only lead to improvement in the level of scholarship in this highly important discipline This is the book's primary focus [Introduction to Inverse Problems in Imaging](#) M. Bertero, P. Boccacci, Christine De Mol, 2021-12-20 Fully updated throughout and with several new chapters this second edition of Introduction to Inverse Problems in Imaging guides advanced undergraduate and graduate students in physics computer science mathematics and engineering through the principles of linear inverse problems in addition to methods of their approximate solution and their practical applications in imaging This second edition contains new chapters on edge preserving and sparsity enforcing regularization in addition to maximum likelihood methods and Bayesian regularization for Poisson data The level of mathematical treatment is kept as low as possible to make the book suitable for a wide range of students from different

backgrounds with readers needing just a rudimentary understanding of analysis geometry linear algebra probability theory and Fourier analysis The authors concentrate on presenting easily implementable and fast solution algorithms and this second edition is accompanied by numerical examples throughout It will provide readers with the appropriate background needed for a clear understanding of the essence of inverse problems ill posedness and its cure and consequently for an intelligent assessment of the rapidly growing literature on these problems Key features Provides an accessible introduction to the topic while keeping mathematics to a minimum Interdisciplinary topic with growing relevance and wide ranging applications Accompanied by numerical examples throughout

Advances in Electronics and Electron Physics
,1989-08-23 **Advances in Electronics and Electron Physics** **Scattering And Diffraction In Physical Optics (2nd Edition)** Manuel Nieto Vesperinas,2006-06-01 This book presents a comprehensive tutorial on propagation diffraction and scattering problems from the basic principles of physical optics Beginning with the fundamental differential and integral equations for wavefields the text presents an exhaustive discussion on the extinction theorem as a non local boundary condition this has been extensively employed for the rigorous solution of scattering and diffraction problems There is also an in depth presentation of the topic of scattering from rough surfaces in particular the phenomenon of enhanced backscattering as well as a detailed development of the angular spectrum representation of fields leading to questions on non diffraction beams Of key interest in near field optical microscopy and nanooptics the S matrix theory based on the angular spectrum for propagating components and the recently discovered properties of the S matrix for evanescent components of wavefields are considered In addition the book deals with the healing effect of phase conjugation on waves and focuses on some applications concerning the relationship with time reversal Readers will also find discussions on image recovery from partial information data phase problems and super resolution problems as well as a chapter on the fundamentals of near field optical microscopy techniques including the hot topic of propagation in negative index media

Advances in Information Optics and Photonics René Dändliker,2008 In this age of the photon information optics and photonics represent the key technologies to sustain our knowledge based society New concepts in classical and quantum entangled light coherent interaction with matter and novel materials and processes have led to remarkable advances in today s information science and technology The ICO is closely involved with information optics as exemplified by the ICO topical meeting on Optoinformatics Information Photonics St Petersburg Russia 2006 the ICO ICTP Winter College on Quantum and Classical Aspects of Information Optics Trieste Italy 2006 and the many ICO Prizes recently awarded on outstanding contributions on these topics This book is in part based on these ICO activities

Collected Works (volume 1): Published Papers Stephen Luttrell,2023-10-24 The motivation for the research that is described in these volumes is the wish to explain things in terms of their underlying causes rather than merely being satisfied with phenomenological descriptions When this reductionist approach is applied to information processing it allows the internal structure of information to be analysed so information

processing algorithms can then be derived from first principles One of the simplest examples of this approach is the diagonalisation of a data covariance matrix there are many variants of this basic approach such as singular value decomposition in which the assumed independent components of high dimensional data are identified and extracted The main limitation of this type of information analysis approach is that it is based on linear algebra applied globally to the data space so it is unable to preserve information about any local data structure in the data space For instance if the data lives on a low dimensional curved manifold embedded in the data space then only the global properties of this manifold would be preserved by global linear algebra methods In practice data whose high dimensional structure is non trivial typically lives on a noisy version of a curved manifold so techniques for analysing such data must automatically handle this type of structure For instance a blurred image of a point source is described by its underlying degrees of freedom i e the position of the source and as the source moves about it generates a curved manifold that lives in the high dimensional space of pixel values of the sampled image The basic problem is then to deduce the internal properties of this manifold by analysing examples of such images A more challenging problem would be to extend this analysis to images that contain several overlapping blurred images of point sources and so on There is no limit to the complexity of the types of high dimensional data that one might want to analyse These methods then need to be automated so that they do not rely on human intervention which would then allow them to be inserted as components into information processing networks The purpose of the research that is described in these volumes is to develop principled information processing methods that can be used for such analysis Self organising information processing networks arise naturally in this context in which ways of cutting up the original manifold into simpler pieces emerge automatically

Physical Fundamentals of Remote Sensing Erwin Schanda, 2012-12-06 Ten years ago the author together with eight co authors edited a textbook Remote Sensing for Environmental Sciences within the series on Ecological Studies of Springer Verlag At that time there were not yet many books available on remote sensing The decade that has elapsed was marked by a spectacular development in this field This development took place in many directions by widening the areas of application by improvements of the methods and the sensors by the introduction of new versatile platforms but also by deepening the knowledge of the theoretical foundations This evolution improved the ability to explain the interaction between electromagnetic radiation and natural objects which in its turn allowed for better modelization and for the creation of refined mathematical tools in the processing of remotely sensed data and in the determination of the physical status of remote objects The community of research workers engaged in development and use of remote sensing methods changed accordingly from a modest group of scientists in the early 1970 s to a considerable branch of specialized and interdisciplinary activity The training of students had to be adapted to cope with the increasing number of people entering this new field and with the increasing quality of the material to be presented

Computer Processing of Electron Microscope Images P. W. Hawkes, 2012-12-06 Towards the end of the 1960s a number of quite different circumstances

combined to launch a period of intense activity in the digital processing of electron micrographs. First many years of work on correcting the resolution limiting aberrations of electron microscope objectives had shown that these optical impediments to very high resolution could indeed be overcome but only at the cost of immense experimental difficulty thanks largely to the theoretical work of K J Hanszen and his colleagues and to the experimental work of F Thon the notions of transfer functions were beginning to supplant or complement the concepts of geometrical optics in electron optical thinking and finally large fast computers capable of manipulating big image matrices in a reasonable time were widely accessible. Thus the idea that recorded electron microscope images could be improved in some way or rendered more informative by subsequent computer processing gradually gained ground. At first most effort was concentrated on three dimensional reconstruction particularly of specimens with natural symmetry that could be exploited and on linear operations on weakly scattering specimens. Chap I In 1973 however R W Gerchberg and W O Saxton described an iterative algorithm that in principle yielded the phase and amplitude of the electron wave emerging from a strongly scattering specimen.

Internationale zeitschrift für wissenschaftliche synthese, 1982 Issues for 1909 include Supplement translations from articles dont le texte original n est pas en langue française varies slightly. *Aerosol Microphysics II* W. H. Marlow, 2013-03-08 Aerosols which are gas phase dispersions of particulate matter draw upon and contribute to multidisciplinary work in technology and the natural sciences. As has been true throughout the history of science with other fields of interest whose underlying disciplinary structure was either unclear or insufficiently well developed to contribute effectively to those fields aerosol science has developed its own methods and lore somewhat sequestered from the main lines of contemporary physical thought. Indeed this independent development is the essential step in which systematic or phenomenological descriptions are evolved with validity of sufficient generality to suggest the potential for development of a physically rigorous and generalizable body of knowledge. At the same time the field has stimulated many questions which limited to its own resources are hopelessly beyond explanation. As Kuhn pointed out in *The Structure of Scientific Revolution* 2nd enlarged edition University of Chicago Press Chicago 1970 Chapter II and Postscript 1969 this is a very common juncture in the development of a science. In brief the transition from this earlier stage to the mature stage of the science involves a general recognition and agreement of what the foundations of the field consist of. By this critical step a field settles upon a common language which is well defined rather than the ambiguous and often undefined descriptors prevalent at the earlier stage.

The Stratospheric Aerosol Layer R.C. Whitten, 2013-03-07 It is now a quarter of a century since Junge and his coworkers recovered the first sample from the sulfate aerosol layer in the stratosphere. Since that time vast strides have been made in determining its physical properties and morphology. These investigations have been performed with instruments on board aircraft and balloon platforms as in the early days with ground based lidar optical radar and most recently with satellite borne optical instruments. It will become evident in Chapter 2 that in situ measurements by aircraft and balloon sensors

complement rather than duplicate the remote techniques lidar and satellite. Hence future programs will probably continue to utilize direct as well as indirect experimental techniques. Concurrently with the observations of the gross properties of the aerosol layer, laboratory and theoretical studies have sought to elucidate the chemical and micro physical processes which influence the formation and growth of the aerosol particles. The laboratory investigations have included studies of gas phase chemistry and particle nucleation and growth mechanisms. Theoretical studies have revolved mainly around a series of models developed by atmospheric scientists. The earliest of these models was constructed by Junge and his colleagues. With the advent of third and fourth generation computers the capacity to solve the quite complex continuity equations which govern particle formation, growth and removal has advanced to the point where most of the particle properties can be simulated with reasonable confidence. *Radio Science*, 1981

Excitons K. Cho, 2012-12-06 Contents: Cho K Introduction; Cho K Internal Structure of Excitons; Dean P J A 01; Herbert D C A 02 Bound Excitons in A Semiconductors; Fischer B; Lagois J Surface Exciton Polaritons; Yu P Y Study of Excitons and Exciton Phonon Interactions by Resonant Raman and Brillouin Spectroscopies

Dissipative Systems in Quantum Optics R. Bonifacio, 2012-12-06 In studying the radiation-matter interaction one can take two different approaches. The first is typical of spectroscopy: one considers the interaction between radiation and a single atom, i.e. one studies those phenomena in which the presence of other atoms is irrelevant. The other attitude consists in contrast in studying those phenomena which arise just from the simultaneous presence of many atoms. In fact all the atoms interact with the same electromagnetic field under suitable conditions; this situation creates strong atom-atom correlations which in turn give rise to a cooperative behavior of the system as a whole. Cooperative means that the overall behavior is quite different from the superposition of the effects arising from single atoms and is completely unpredictable if one neglects the coupling between the atoms induced by their common electromagnetic field. This book contains five complete and up-to-date contributions on the theory and experiments of three coherence effects in radiation-matter interaction: resonance fluorescence, optical bistability, and superfluorescence. They have raised increasing interest in recent years from both a fundamental and an applicative viewpoint. Even if their phenomenology appears completely different, these effects belong in the same book because they are striking examples of open systems driven far from thermal equilibrium as those considered in Haken's synergetics and in Prigogine's theory of dissipative structures. This aspect is discussed in the introductory chapter in which we outline the basic physics and the essential features which unify these three effects.

Synchrotron Radiation C. Kunz, 2013-11-11 Synchrotron radiation as a spectroscopic research tool has undergone a most interesting and astonishing historical development and has now come to the stage of an exciting boom. The machines which produce synchrotron radiation were built and developed exclusively for other purposes in the past, namely high energy physics. At the same time, however, they involuntarily became better and better light sources for the spectral range from the visible to the hard x-ray region. Now we are at the point that the first few storage rings have gone

into operation as machines dedicated to synchrotron radiation and several more are in the stage of construction and planning. All this was brought about by the successful research performed during the past fifteen years in which several groups all over the world have participated at different accelerator centers mostly symbiotic with high energy physics. As it happens with a young and rapidly developing field the number of reviews and monographs is still minute. The objective of this book is to fill an apparent gap and to provide a sound basis for those who are interested in synchrotron radiation and its applications.

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In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Inverse Source Problems In Optics Topics In Current Physics**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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