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**Inverse and Ill-Posed Sources Problems Inverse Source Problems** *Nitrogen in the Environment: Sources, Problems and Management Analyzing Nonpoint Source Water Pollution Problems Scientific Sources and Teaching Contexts Throughout History: Problems and Perspectives*  
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Large Plane Slab with Constant Source and Anisotropic Scattering Canonical Problems in Scattering and Potential Theory Part II **Learning Mathematics in Elementary and Middle Schools** **Proceedings of the TropSoils Phosphorus Decision Support System Workshop** **Photography: Source & Resource Solve Your Own Business Problems** Big Data Application Architecture Q&A *Asia/Pacific Mining Yearbook & Supplier's Source Digest* **Engineering Optimization 2014** **Writing Research Papers Across the Curriculum** Building a Peace System

Computational Learning Theory presents the theoretical issues in machine learning and computational models of learning. This book covers a wide range of problems in concept learning, inductive inference, and pattern recognition. Organized into three parts encompassing 32 chapters, this book begins with an overview of the inductive principle based on weak convergence of probability measures. This text then examines the framework for constructing learning algorithms. Other chapters consider the formal theory of learning, which is learning in the sense of improving computational efficiency as opposed to concept learning. This book discusses as well the informed parsimonious (IP) inference that generalizes the compatibility and weighted parsimony techniques, which are most commonly applied in biology. The final chapter deals with the construction of prediction algorithms in a situation in which a learner faces a sequence of trials, with a prediction to be given in each and the goal of the learner is to make some mistakes. This book is a valuable resource for students and teachers. Nitrogen in the Environment: Sources, Problems, and Management is the first volume to provide a holistic perspective and comprehensive treatment of nitrogen from field, to ecosystem, to treatment of urban and rural drinking water supplies, while also including a historical overview, human health impacts and policy considerations. It provides a

worldwide perspective on nitrogen and agriculture. Nitrogen is one of the most critical elements required in agricultural systems for the production of crops for feed, food and fiber. The ever-increasing world population requires increasing use of nitrogen in agriculture to supply human needs for dietary protein. Worldwide demand for nitrogen will increase as a direct response to increasing population. Strategies and perspectives are considered to improve nitrogen-use efficiency. Issues of nitrogen in crop and human nutrition, and transport and transformations along the continuum from farm field to ground water, watersheds, streams, rivers, and coastal marine environments are discussed. Described are aerial transport of nitrogen from livestock and agricultural systems and the potential for deposition and impacts. The current status of nitrogen in the environment in selected terrestrial and coastal environments and crop and forest ecosystems and development of emerging technologies to minimize nitrogen impacts on the environment are addressed. The nitrogen cycle provides a framework for assessing broad scale or even global strategies to improve nitrogen use efficiency. Growing human populations are the driving force that requires increased nitrogen inputs. These increasing inputs into the food-production system directly result in increased livestock and human-excretory nitrogen contribution into the environment. The scope of this book is diverse, covering a range of topics and issues from furthering our understanding of nitrogen in the environment to policy considerations at both farm and national scales. Although the analysis of scattering for closed bodies of simple geometric shape is well developed, structures with edges, cavities, or inclusions have seemed, until now, intractable to analytical methods. This two-volume set describes a breakthrough in analytical techniques for accurately determining diffraction from classes of canonical scatterers. This unique book features 37 full-length, peer-reviewed versions of papers presented at the First Los Alamos Symposium on Ultra-

Wideband Radar. The purpose of the symposium was to offer an open, unbiased forum where researchers in areas connected to ultra-wideband radar (UWBR) could present results of their work and exchange ideas. The papers published from the proceedings illuminate the breadth and depth of the topic and cover seven general areas: fundamental electromagnetic theory; computational electromagnetics and code development; signal propagation, scattering, and reception; new technologies, advanced arrays, and imaging; signal processing and radar systems; and applications and testing. The book will provide stimulating reading for scientists, engineers, managers, and students working with UWBR. Optimization methodologies are fundamental instruments to tackle the complexity of today's engineering processes. Engineering Optimization 2014 is dedicated to optimization methods in engineering, and contains the papers presented at the 4th International Conference on Engineering Optimization (ENGOPT2014, Lisbon, Portugal, 8-11 September 2014). The book will be of interest to engineers, applied mathematicians, and computer scientists working on research, development and practical applications of optimization methods in engineering. Clarification of the GATT rules would undoubtedly help counter increasing pressures to use trade instruments as a form of environmental policy - and would help redirect attention toward the true causes of environmental damage. Through expanded intelligence, the use of robotics has fundamentally transformed a variety of fields, including manufacturing, aerospace, medicine, social services, and agriculture. Continued research on robotic design is critical to solving various dynamic obstacles individuals, enterprises, and humanity at large face on a daily basis. Robotic Systems: Concepts, Methodologies, Tools, and Applications is a vital reference source that delves into the current issues, methodologies, and trends relating to advanced robotic technology in the modern world. Highlighting a range of topics such as mechatronics, cybernetics, and human-computer

interaction, this multi-volume book is ideally designed for robotics engineers, mechanical engineers, robotics technicians, operators, software engineers, designers, programmers, industry professionals, researchers, students, academicians, and computer practitioners seeking current research on developing innovative ideas for intelligent and autonomous robotics systems. Methodological Problems with the Academic Sources of Popular Psychology examines the relationship between academic and popular psychology from a critical perspective based in university-based research. This book looks at the methodological problems in psychology in relation to experimentalism, statistical inference, and psychological measurement. This book introduces and reviews all of the currently available methods being used for computational electroencephalogram (EEG) analysis, from the fundamentals through to the state-of-the-art. The aim of the book is to help biomedical engineers and medical doctors who use EEG to better understand the methods and applications of computational EEG analysis from a single, well-organized resource. Following a brief introduction to the principles of EEG and acquisition techniques, the book is divided into two main sections. The first of these covers analysis methods, beginning with preprocessing, and then describing EEG spectral analysis, event-related potential analysis, source imaging and multimodal neuroimaging, and functional connectivity analysis. The following section covers application of EEG analysis to specific fields, including the diagnosis of psychiatric diseases and neurological disorders, brain-computer interfacing, and social neuroscience. Aimed at practicing medical specialists, engineers, researchers and advanced students, the book features contributions from world-renowned biomedical engineers working across a broad spectrum of computational EEG analysis techniques and EEG applications. R. MILNE Intelligent Applications Ltd The papers in this volume are the Application Papers presented at ES98, the Eighteenth International Conference of the British

Computer Society's Specialist Group on Expert Systems. This year has been yet another "applications" success for the conference with this volume containing seventeen papers describing either deployed applications or emerging applications. All these documented case studies provide clear evidence of the success of AI technology in solving real business problems. Six of these papers were nominated for the Best Application Award during the review process. These nominations were then reviewed by the members of the Programme Committee to select the winning paper. The papers in the volume were subject to refereeing by at least two referees. All papers which were controversial for some reason were discussed in depth by the Application Programme Committee. Ten referees from the industrial and commercial sector and nine referees from the academic sector assisted me in reviewing the papers. The review form asked the referee to score the papers according to a number of dimensions, to rate it overall, and to offer critical comments to me, and to the authors. It also asks the referee to score their expertise in the area of each paper they review. Only reviews from 'expert' referees are used. A Collection of Problems on Mathematical Physics is a translation from the Russian and deals with problems and equations of mathematical physics. The book contains problems and solutions. The book discusses problems on the derivation of equations and boundary condition. These Problems are arranged on the type and reduction to canonical form of equations in two or more independent variables. The equations of hyperbolic type concerns derive from problems on vibrations of continuous media and on electromagnetic oscillations. The book considers the statement and solutions of boundary value problems pertaining to equations of parabolic types when the physical processes are described by functions of two, three or four independent variables such as spatial coordinates or time. The book then discusses dynamic problems pertaining to the mechanics of continuous media and problems on electrodynamics. The

text also discusses hyperbolic and elliptic types of equations. The book is intended for students in advanced mathematics and physics, as well as, for engineers and workers in research institutions. The Illustrated Series Soft Skills titles are designed to make it easy to teach students the essential soft skills necessary to succeed in today's competitive workplace. Each book and companion CourseMate cover 40 critical skills, providing students with extensive knowledge they can bring with them into the real world. CourseMate brings each text to life with an audio visual eBook, scenario videos, access to Career Transitions, interactive activities for reinforcement, and Engagement Tracker, a first-of-its-kind tool that monitors student engagement in the course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Big Data Application Architecture Pattern Recipes provides an insight into heterogeneous infrastructures, databases, and visualization and analytics tools used for realizing the architectures of big data solutions. Its problem-solution approach helps in selecting the right architecture to solve the problem at hand. In the process of reading through these problems, you will learn harness the power of new big data opportunities which various enterprises use to attain real-time profits. Big Data Application Architecture Pattern Recipes answers one of the most critical questions of this time 'how do you select the best end-to-end architecture to solve your big data problem?'. The book deals with various mission critical problems encountered by solution architects, consultants, and software architects while dealing with the myriad options available for implementing a typical solution, trying to extract insight from huge volumes of data in real-time and across multiple relational and non-relational data types for clients from industries like retail, telecommunication, banking, and insurance. The patterns in this book provide the strong architectural foundation required to launch your next big data application. The architectures for

realizing these opportunities are based on relatively less expensive and heterogeneous infrastructures compared to the traditional monolithic and hugely expensive options that exist currently. This book describes and evaluates the benefits of heterogeneity which brings with it multiple options of solving the same problem, evaluation of trade-offs and validation of 'fitness-for-purpose' of the solution. The Inverse and Ill-Posed Problems Series is a series of monographs publishing postgraduate level information on inverse and ill-posed problems for an international readership of professional scientists and researchers. The series aims to publish works which involve both theory and applications in, e.g., physics, medicine, geophysics, acoustics, electrodynamics, tomography, and ecology. The book collects and contributes new results on the theory and practice of ill-posed inverse problems. Different notions of ill-posedness in Banach spaces for linear and nonlinear inverse problems are discussed not only in standard settings but also in situations up to now not covered by the literature. Especially, ill-posedness of linear operators with uncomplemented null spaces is examined. Tools for convergence rate analysis of regularization methods are extended to a wider field of applicability. It is shown that the tool known as variational source condition always yields convergence rate results. A theory for nonlinear inverse problems with quadratic structure is developed as well as corresponding regularization methods. The new methods are applied to a difficult inverse problem from laser optics. Sparsity promoting regularization is examined in detail from a Banach space point of view. Extensive convergence analysis reveals new insights into the behavior of Tikhonov-type regularization with sparsity enforcing penalty. Inverse problems arise in many areas of mathematical physics, and applications are rapidly expanding to such areas as geophysics, chemistry, medicine, and engineering. The main theme of this book is uniqueness, stability, and existence of solutions of inverse problems for partial differential



equations. Focusing primarily on the inverse problem of potential theory and closely related questions such as coefficient identification problems, this book will give readers an understanding of the results of a substantial part of the theory of inverse problems and of some of the new ideas and methods used. The author provides complete proofs of most general uniqueness theorems for the inverse problem of gravimetry, a detailed study of regularity properties (including examples of non-regular domains with regular potentials), counterexamples to uniqueness and uniqueness theorems, and a treatment of the theory of non-stationary problems. In addition, the book deals with the orthogonality method, formulates several important unsolved problems, and suggests certain technical means appropriate for further study; some numerical methods are also outlined. Requiring a background in the basics of differential equations and function theory, this book is directed at mathematicians specializing in partial differential equations and potential theory, as well as physicists, geophysicists, and engineers.

**Brief Contents**

Chapter 1 Teaching Mathematics: Influences and Directives

Chapter 2 Learning and Teaching Mathematics

Chapter 3 Developing Mathematical Thinking and Problem-Solving Ability

Chapter 4 Assessing Mathematics Understanding

Chapter 5 Developing Number Concepts

Chapter 6 Developing Understanding of Numeration

Chapter 7. The success of a BCI system depends as much on the system itself as on the user's ability to produce distinctive EEG activity. BCI systems can be divided into two groups according to the placement of the electrodes used to detect and measure neurons firing in the brain. These groups are: invasive systems, electrodes are inserted directly into the cortex are used for single cell or multi unit recording, and electrocorticography (EcoG), electrodes are placed on the surface of the cortex (or dura); noninvasive systems, they are placed on the scalp and use electroencephalography (EEG) or magnetoencephalography (MEG) to detect neuron activity. The book is basically divided into three

parts. The first part of the book covers the basic concepts and overviews of Brain Computer Interface. The second part describes new theoretical developments of BCI systems. The third part covers views on real applications of BCI systems. Tells how to identify, define, and solve a variety of common small business problems and includes advice on avoiding major business problems An easily accessible resource that showcases the links between using documented primary sources and gaining a more nuanced understanding of military history. • Covers benchmark documents in U.S. diplomatic and military history from 14 conflicts • Utilizes document introductions and scholarly analysis to help students understand the primary source materials • Supports document-based teaching and learning strategies • Ties into Common Core critical thinking guidelines commonly used in high school history courses for document analysis • Helps students understand the difference between original source material and unsourced claims made on the Internet This book examines the textual, social, cultural, practical and institutional environments to which the expression “teaching and learning contexts” refers. It reflects on the extent to which studying such environments helps us to better understand ancient or modern sources, and how notions of “teaching” and “learning” are to be understood. Tackling two problems: the first, is that of certain sources of scientific knowledge being studied without taking into account the various “contexts” of transmission that gave this knowledge a long-lasting meaning. The second is that other sources are related to teaching and learning activities, but without being too precise and demonstrative about the existence and nature of this “teaching context”. In other words, this book makes clear what is meant by “context” and highlights the complexity of the practice hidden by the words “teaching” and “learning”. Divided into three parts, the book makes accessible teaching and learning situations, presents comparatist approaches, and emphasizes the notion of teaching as projects embedded in

coherent treatises or productions. Algorithms for Automating Open Source Intelligence (OSINT) presents information on the gathering of information and extraction of actionable intelligence from openly available sources, including news broadcasts, public repositories, and more recently, social media. As OSINT has applications in crime fighting, state-based intelligence, and social research, this book provides recent advances in text mining, web crawling, and other algorithms that have led to advances in methods that can largely automate this process. The book is beneficial to both practitioners and academic researchers, with discussions of the latest advances in applications, a coherent set of methods and processes for automating OSINT, and interdisciplinary perspectives on the key problems identified within each discipline. Drawing upon years of practical experience and using numerous examples, editors Robert Layton, Paul Watters, and a distinguished list of contributors discuss Evidence Accumulation Strategies for OSINT, Named Entity Resolution in Social Media, Analyzing Social Media Campaigns for Group Size Estimation, Surveys and qualitative techniques in OSINT, and Geospatial reasoning of open data. Presents a coherent set of methods and processes for automating OSINT Focuses on algorithms and applications allowing the practitioner to get up and running quickly Includes fully developed case studies on the digital underground and predicting crime through OSINT Discusses the ethical considerations when using publicly available online data Offering a balanced approach to problem-solving issues in a complex and changing world, this book focuses specifically on the subject of problem solving in policing. Featured selections include chapters on domestic security, disorderly youth, auto theft, prostitution, gang delinquency and crime in public housing. Other notable selections discuss the role of supervising police personnel engaged in problem solving, advances in using this approach in criminal investigations, solving serial crimes, preparing for terrorism, and developing patrol officers as

effective first responders to active violence. This handbook takes students through the steps and strategies of writing research papers in many disciplines. It introduces two documentation styles for the humanities and two for the social and natural sciences. Discussions cover three types of research papers across the curriculum: reports on studies and experiments, review of literature papers, and critical papers. Human influences create both environmental problems and barriers to effective policy aimed at addressing those problems. In effect, environmental managers manage people as much as they manage the environment. Therefore, they must gain an understanding of the psychological and sociopolitical dimensions of environmental problems that they are attempting to resolve. In *Environmental Problem Solving*, Alan Miller reappraises conventional analyses of environmental problems using lessons from the psychosocial disciplines. He combines the disciplines of ecology, political sociology and psychology to produce a more adaptive approach to problem-solving that is specifically geared toward the environmental field. Numerous case studies demonstrate the practical application of theory in a way that is useful to technical and scientific professionals as well as to policy makers and planners. Alan Miller is Professor of Psychology at the University of New Brunswick.

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