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Inverse Source Problems About this Title. Victor Isakov. Publication: Mathematical Surveys and Monographs Publication Year 1990: Volume 34 ISBNs: 978-0-8218-1532-8 (print); 978-1-4704-1261-6 (online)

An Inverse Source Problem for Maxwell's Equations in ...
Inverse source problems are very important for applications in science, engineer-ing and bioengineering which have attracted great attention of many researchers in recent years, refer to [6, 10]. In this paper, we consider the problem of determining a source term of the Poisson equation. The inverse source problem consists of de-

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This talk concerns the inverse source scattering problems for acoustic, elastic, and electromagnetic waves. The inverse random source problems will be discussed. The sources are assumed to be random functions driven by the additive white noise. The inverse problems are to determine statistical properties of the random sources from the boundary measurement of the radiated

An inverse random source problem for Maxwell's equations
The inverse spectral problem is just one among many kinds of inverse problems whose goal is to determine a metric, domain or scatterer from phys-ically relevant invariants. A comparison with other inverse problems shows just how small a set of invariants the spectrum is. For instance, the boundary

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Inverse Problems 22 (2006) ... The point-source method 9 2.1. ... about different approaches for the inverse problems under consideration and a survey about

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This paper proposes an iterative technique to reconstruct the source term in transport equations, which account for scattering effects, from boundary measurements. In the two-dimensional setting, the full outgoing distribution in the phase space (position and direction) needs to be measured. In three space dimensions, we show that measurements for angles that are orthogonal to a given ...

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Definitions and examples of inverse and ill-posed problems
Given a (combinatorial) optimization problem and a feasible solution to it, the corresponding inverse optimization problem is to find a minimal adjustment of the cost function such that the given solution becomes optimum. Several such problems have been studied in the last twelve years. After formalizing the notion of an inverse problem and its variants, we present various methods for solving ...

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Inverse source problems/Victor Isakov. p. cm.—(Mathematical surveys and monographs; no. 34) Includes bibliographical references and index. ISBN 0-8218-1532-6 (alk. paper) 1. Inverse problems (Differential equations). 2. Differential equations, Partial. I. Title. II. Series. QA374.I83 1990 90-37843 515;.353—dc20 CIP Copying and reprinting.

Inverse Combinatorial Optimization: A Survey on Problems ...
Consider an inverse source problem for Maxwell's equations which arises in determining locations of epileptic foci in the living human brain. The human brain is modeled as a heterogeneous medium, where the electric permittivity, magnetic permeability, and conductivity may all be functions.

A survey on sampling and probe methods for inverse problems
stochastic inverse source problems were considered in [6,10,27], where the governing equations are stochastic ordinary di erential equations. Unfortunately, these approaches could not be extended directly to the multidimensional problem. In this paper, we study both the direct and inverse source scattering problems for the two-

AN INVERSE SOURCE PROBLEM OF THE POISSON EQUATION WITH ...
A new reconstruction method for the inverse source problem from partial boundary measurements. Inverse Problems, Vol. 31 ... A survey on level set methods for inverse problems and optimal design. European J. Appl. Math., 16: ... Inverse Source Problems. American Mathematical Society, Providence, Rhode Island, 1990. [9] ...

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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.

The inverse spectral problem - NU Math Sites

In the inverse problem, it is required to determine the unknown functions occurring in the formulation of the direct problem from the data f(x,t). Inverse problems of mathematical physics can be classified into groups depending on which functions are unknown or some other criteria. We will use our example to describe this classification. 2.1.

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362 2004 inverse source problems mathematical surveys and monographs 34 american mathematical society providence ri 1990 this paper discusses some aspects of an inverse source problem for elliptic equations with observations on the boundary of the domain the main application aimed at is the problem of identifying electrostatic.

Inverse Source Problems in Transport Equations | SIAM ...

3. Inverse Lighting Problems (ILP) The inverse lighting problems are those problems where the unknown is the lighting of the scene (see figure 1 where a very simple scene is depicted with an unknown light source). These problems can be further classified into problems of inverse emittances and inverse light positioning. In the for-

Inverse Random Source Scattering Problems in Several ...

on the inverse elastic random source scattering problems with s2[d 2; d 2 +1). We refer to [18,19] for related inverse problems on the stochastic Schr odinger equation. To the best of our knowledge, the inverse random source problem for Maxwell's equations is completely open! This work initializes the mathematical study on the direct and