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Inverse Source Problems Mathematical Surveys

Amazon.com: Inverse Source Problems (Mathematical Surveys & Monographs) (9780821815328): Victor Isakov: Books

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An inverse coefficients (identification) problem is to find coefficients or the right-hand side of this equation if additional boundary data are given. Many inverse problems arise naturally and have important applications. As a rule, these problems are rather difficult to solve for two reasons: they are nonlinear and they are improperly posed.

INVERSE SOURCE PROBLEMS - American Mathematical Society

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)

Inverse Source Problems - American Mathematical Society

Inverse Source Problems. Share this page. Michael E. Taylor: University of North Carolina, Chapel Hill, Chapel Hill, NC. 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.

Inverse Source Problems - American Mathematical Society

Isakov V 1989 Inverse Source Problems (Mathematics Surveys and Monographs) vol 34 (Providence, RI: American Mathematical Society) Google Scholar [13] Isakov V 1998 Inverse Problems for Partial Differential Equations (Applied Mathematical Science 98) vol 127 (Berlin: Springer)

An inverse source problem in potential analysis - IOPscience

Surveys on Solution Methods for Inverse Problems. Inverse problems are concerned with determining causes for observed or desired effects. Problems of this type appear in many application fields both in science and in engineering.

Surveys on Solution Methods for Inverse Problems ...

The inverse problem (2.2)–(2.5) is called a source problem if it is required to determine the source, i.e., the function $h(x,t)$ in equation (2.2).

Definitions and examples of inverse and ill-posed problems

Download PDF Abstract: This paper is concerned with an inverse source problem for the three-dimensional Helmholtz equation by a single boundary measurement at a fixed frequency. We show

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the Lipschitz stability under the assumption that the source function is a piecewise constant defined on a domain which is made of a union of disjoint convex polyhedral subdomains.

[2007.09900] Lipschitz stability for an inverse source ...

Source imaging maps back boundary measurements to underlying generators within the domain; e.g., retrieving the parameters of the generating dipoles from electrical potential measurements on the scalp such as in electroencephalography (EEG). Fitting such a parametric source model is non-linear in the positions of the sources and renewed interest in mathematical imaging has led to several ...

Analytic sensing for multi-layer spherical models with ...

An inverse problem in science is the process of calculating from a set of observations the causal factors that produced them: for example, calculating an image in X-ray computed tomography, source reconstruction in acoustics, or calculating the density of the Earth from measurements of its gravity field.

Inverse problem - Wikipedia

In this chapter, we formulate basic inverse problems and indicate their applications. The choice of these problems is not random. We think that it represents their interconnections and some hierarchy. ... Isakov, V. Inverse Source Problems. Math. Surveys and Monographs Series, Vol. 34, AMS, Providence, R.I., 1990. Google Scholar [KKL]

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Inverse source problems (Book, 1990) [WorldCat.org]

The inverse source problem consists of determining the location, the size and the shape of the hidden source from available measured data on the boundary. This inverse source problem is nonlinear and ill-posed in the sense that the solution, even if it exists, does not depend continuously on the measured data.

AN INVERSE SOURCE PROBLEM OF THE POISSON EQUATION WITH ...

The inverse problem is to determine the statistical properties of the source from the expectation and variance of the final time data. For the direct problem, we show that it is well-posed and has a unique mild solution under a certain condition. For the inverse problem, the uniqueness is proved and the instability is characterized.

An inverse random source problem for the time fractional ...

(with Y. Gao and Y. Yang) On an inverse source problem for the Biot equations in electro-seismic imaging, Inverse Problems, 35 (2019), 095009. [PDF | Journal Link] (with H.-

Peijun Li's Home Page - Department of Mathematics

The significance of inverse problems became greater after discovering a possibility to apply them to solve some non-linear evolution equations of mathematical physics. In particular, a relationship (see [25]) between inverse problems for some Sturm-Liouville operators with a finite number of gaps in the spectrum and the Jacobi inversion ...

Sturm-Liouville problem, inverse - Encyclopedia of Mathematics

(more unsolved problems in mathematics) In Galois theory, the inverse Galois problem concerns whether or not every finite group appears as the Galois group of some Galois extension of the rational numbers \mathbb{Q} . This problem, first posed in the early 19th century, is unsolved.

Inverse Galois problem - Wikipedia

Color over Angle (CoA) variation in the light output of white phosphor-converted LEDs is a common problem in LED lighting technology. In this article we propose an inverse method to design an optical element that eliminates the color variation for a point light source. The method in this article is an improved version of an earlier method by the same authors, and provides more design freedom ...

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An inverse method for color uniformity in white LED spotlights

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