Inverse coefficient problems for one-dimensional time-fractional diffusion equations

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Abstract

We prove the uniqueness in determining a spatially varying zeroth-order coefficient of a onedimensional time-fractional diffusion equation by initial value and Cauchy data at one end point of the spatial interval.

1 Introduction and main results

Let $\ell, T > 0$. By $L^2(0, \ell)$, $H^2(0, \ell)$, $W^{1,1}(0, T)$, $W^{1,1}(0, T; L^2(0, \ell))$, $L^2(0, T; H^2(0, \ell))$, etc., we denote the Lebesgue space and usual Sobolev spaces. For $0 < \alpha < 1$, we define the Caputo derivative: $d_t^\alpha v(t) = \frac{1}{\Gamma(1-\alpha)} \int_0^t (t-s)^{-\alpha} \frac{ds}{ds}(s) ds$ for $v \in W^{1,1}(0, T)$, where Γ denotes the gamma function (e.g., Podlubny [14]). Let $u = u(x, t) \in W^{1,1}(0, T; L^2(0, \ell)) \cap L^2(0, T; H^2(0, \ell))$ satisfy

$$d_t^{\alpha}u(x, t) = \partial_x^{\beta}u(x, t) - p(x)u(x, t), \quad u(x, 0) = u(x) \in C^2[0, \ell], \quad 0 < x < \ell, 0 < t < T.$$

This is a model system for example for anomalous diffusion in heterogeneous media (e.g., [14]). This article is concerned with

Inverse coefficient problem: Let T > 0 be arbitrarily fixed. Then determine p(x), $0 < x < \ell$ by data u(x, 0) for $0 < x < \ell$ and u(0, t), $\partial_x u(0, t)$ for 0 < t < T.

We state our first main result on the uniqueness.

Theorem 1 Let $p, q \in C^2[0, T]$, $\alpha \in C^2[0, T]$ and $u, \tilde{u} \in W^{1,1}(0, T; L^2(0, \ell)) \cap L^2(0, T; H^2(0, \ell))$ satisfy

$$d_t^\alpha u(x, t) = \partial_t^2 u(x, t) - p(x)u(x, t), \quad u(x, 0) = a(x), \quad \partial_x u(0, t) = 0, \quad x \in \ell, 0 < t < T$$
 (1.1)

One Dimensional Inverse Problems Of Math

E. R. Pike, Pierre C. Sabatier

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One-Dimensional Inverse Problems of Mathematical Physics Mikhail Mikhailovich Lavrent'ev, K. G. Reznitskaya, Valerii Georgievich IAkhno, 1986 A monograph that deals with the inverse problems of determining a variable coefficient and right side for hyperbolic and parabolic equations on the basis of known solutions at fixed points of space for Inverse Problems of Mathematical Physics V. G. Romanov, 2018-11-05 No detailed description available for all times Inverse Problems of Mathematical Physics **Inverse Problems of Mathematical Physics** Mikhail M. Lavrent'ev, Alexander V. Avdeev, Viatcheslav I. Priimenko, 2012-05-07 This monograph deals with the theory of inverse problems of mathematical physics and applications of such problems Besides it considers applications and numerical methods of solving the problems under study Descriptions of particular numerical experiments are also included Inverse Problems for Maxwell's Equations V. G. Romanov, S. I. Kabanikhin, 2014-10-10 No detailed description available for Inverse Problems for Maxwell s Equations Ill-posed Problems of Mathematical Physics and Analysis Mikhail Mikha lovich Lavrent ev, Vladimir Gavrilovich Romanov, Serge Petrovich Shishatski ,1986-12-31 Physical formulations leading to ill posed problems Basic concepts of the theory of ill posed problems Analytic continuation Boundary value problems for differential equations Volterra equations Integral geometry Multidimensional inverse problems for linear differential equations *Inverse Problems* Alexander G. Ramm, 2005-12-19 Inverse Problems is a monograph which contains a self contained presentation of the theory of several major inverse problems and the closely related results from the theory of ill posed problems. The book is aimed at a large audience which include graduate students and researchers in mathematical physical and engineering sciences and in the area of numerical analysis Inverse Problems in Scattering G.M.L. Gladwell,1993-10-31 Inverse Problems in Scattering exposes some of the mathematics which has been developed in attempts to solve the one dimensional inverse scattering problem Layered media are treated in Chapters 1 6 and quantum mechanical models in Chapters 7 10 Thus Chapters 2 and 6 show the connections between matrix theory Schur's lemma in complex analysis the Levinson Durbin algorithm filter theory moment problems and orthogonal polynomials The chapters devoted to the simplest inverse scattering problems in quantum mechanics show how the Gel fand Levitan and Marchenko equations arose The introduction to this problem is an excursion through the inverse problem related to a finite difference version of Schr dinger's equation One of the basic problems in inverse quantum scattering is to determine what conditions must be imposed on the scattering data to ensure that they correspond to a regular potential which involves Lebesque integrable functions which are introduced in Chapter 9 The One-Dimensional Heat Equation John Rozier Cannon, 1984-12-28 This is a version of Gevrey's classical treatise on the heat equations Included in this volume are discussions of initial and or boundary value problems numerical methods free boundary problems and parameter determination problems The material is presented as a monograph and or information source book After the first six chapters

of standard classical material each chapter is written as a self contained unit except for an occasional reference to elementary definitions theorems and lemmas in previous chapters Scattering, Two-Volume Set E. R. Pike, Pierre C. Sabatier, 2001-10-09 Scattering is the collision of two objects that results in a change of trajectory and energy For example in particle physics such as electrons photons or neutrons are scattered off of a target specimen resulting in a different energy and direction In the field of electromagnetism scattering is the random diffusion of electromagnetic radiation from air masses is an aid in the long range sending of radio signals over geographic obstacles such as mountains This type of scattering applied to the field of acoustics is the spreading of sound in many directions due to irregularities in the transmission medium Volume I of Scattering will be devoted to basic theoretical ideas approximation methods numerical techniques and mathematical modeling Volume II will be concerned with basic experimental techniques technological practices and comparisons with relevant theoretical work including seismology medical applications meteorological phenomena and astronomy This reference will be used by researchers and graduate students in physics applied physics biophysics chemical physics medical physics acoustics geosciences optics mathematics and engineering This is the first encyclopedic range work on the topic of scattering theory in quantum mechanics elastodynamics acoustics and electromagnetics It serves as a comprehensive interdisciplinary presentation of scattering and inverse scattering theory and applications in a wide range of scientific fields with an emphasis and details up to date developments Scattering also places an emphasis on the problems that are still in active current research The first interdisciplinary reference source on scattering to gather all world expertise in this techniqueCovers the major aspects of scattering in a common language helping to widening the knowledge of researchers across disciplinesThe list of editors associate editors and contributors reads like an international Who s Who in the interdisciplinary field of scattering Operator Theory and Differential Equations Anatoly G. Kusraev, Zhanna D. Totieva, 2021-01-13 This volume features selected papers from The Fifteenth International Conference on Order Analysis and Related Problems of Mathematical Modeling which was held in Vladikavkaz Russia on 15 20th July 2019 Intended for mathematicians specializing in operator theory functional spaces differential equations or mathematical modeling the book provides a state of the art account of various fascinating areas of operator theory ranging from various classes of operators positive operators convolution operators backward shift operators singular and fractional integral operators partial differential operators to important applications in differential equations inverse problems approximation theory metric theory of surfaces the Hubbard model social stratification models and viscid incompressible fluids Third International Conference on Mathematical and Numerical Aspects of Wave Propagation Gary C. Cohen, 1995-01-01 This volume contains the papers presented at the title conference Speakers from 13 different countries were represented at the meeting A broad range of topics in theoretical and applied wave propagation is covered Spectral Theory & Computational Methods of Sturm-Liouville Problems Don Hinton, 2021-02-27 Presenting the proceedings of the conference on Sturm

Liouville problems held in conjunction with the 26th Barrett Memorial Lecture Series at the University of Tennessee Knoxville this text covers both qualitative and computational theory of Sturm Liouville problems It surveys questions in the field as well as describing applications and concepts **Computation and Applied Mathematics** ,2000 **Inverse Problems in Physics** Dilip N. Ghosh Roy, 1991-03-14 This interesting volume focuses on the second of the two broad categories into which problems of physical sciences fall direct or forward and inverse or backward problems It emphasizes one dimensional problems because of their mathematical clarity. The unique feature of the monograph is its rigorous presentation of inverse problems from quantum scattering to vibrational systems transmission lines and imaging sciences in a single volume It includes exhaustive discussions on spectral function inverse scattering integral equations of Gel fand Levitan and Marcenko Povzner Levitan and Levin transforms M ller wave operators and Krein's functionals S matrix and scattering data and inverse scattering transform for solving nonlinear evolution equations via inverse solving of a linear isospectral Schrodinger equation and multisoliton solutions of the K dV equation which are of special interest to quantum physicists and mathematicians The book also gives an exhaustive account of inverse problems in discrete systems including inverting a Jacobi and a Toeplitz matrix which can be applied to geophysics electrical engineering applied mechanics and mathematics A rigorous inverse problem for a continuous transmission line developed by Brown and Wilcox is included The book concludes with inverse problems in integral geometry specifically Radon's transform and its inversion which is of particular interest to imaging scientists This fascinating volume will interest anyone involved with quantum scattering theoretical physics linear and nonlinear optics geosciences mechanical biomedical and electrical engineering and imaging Mathematical Modeling in Biomedical Imaging I Habib Ammari, 2009-10-21 This volume gives an introduction to research a fascinating research area to applied mathematicians It is devoted to providing the exposition of promising analytical and numerical techniques for solving challenging biomedical imaging problems which trigger the investigation of interesting issues in various branches of mathematics Mathematics of Computation 1943-1993: A Half-Century of Computational Mathematics Walter Gautschi, 1994 Proceedings of an International Conference held in Vancouver B C August 1993 to commemorate the 50th anniversary of the founding of the journal Mathematics of Computation It consisted of a Symposium on Numerical Analysis and a Minisymposium of Computational Number Theory This proceedings contains 14 invited papers including two not presented at the conference an historical essay on integer factorization and a paper on componentwise perturbation bounds in linear algebra The invited papers present surveys on the various subdisciplines covered by Mathematics of Computation in a historical perspective and in a language accessible to a wide audience The 46 contributed papers address contemporary specialized work Annotation copyright by Book News Inc Portland OR Mathematics of Multidimensional Seismic Imaging, Migration, and Inversion N. Bleistein, J.K. Cohen, John W. Jr. Stockwell, 2013-11-22 In the last 40 years geophysicists have found that it is possible to construct images and even determine important physical

characteristics of rocks that can yield information about oil and gas bearing structures in the earth To make these images and extract this information requires the application of an advanced understanding of the mathematical physics of wave propagation The oil and gas industry labels a major collection of the necessary seismic data processing methods by the name seismic migration This text ist the first to treat many kinds of migration in a unified mahtematical way The audience is mathematically oriented geophysicists or applied mathematicians working in the field of inverse scattering imaging The text can serve as a bridge between the applied math and geophysics community by presenting geophysicists with a practical introduction to advanced engineering mathematics while presenting mathematicians with a window into the world of the mathematically sophistiated geophysicist Random Fields Estimation Alexander G. Ramm, 2005 This book contains a novel theory of random fields estimation of Wiener type developed originally by the author and presented here No assumption about the Gaussian or Markovian nature of the fields are made The theory constructed entirely within the framework of covariance theory is based on a detailed analytical study of a new class of multidimensional integral equations basic in estimation theory This book is suitable for graduate courses in random fields estimation It can also be used in courses in functional analysis numerical analysis integral equations and scattering theory Differential Equations and Mathematical Physics Ian W. Knowles, Yoshimi Saito, 2006-11-14 The meeting in Birmingham Alabama provided a forum for the discussion of recent developments in the theory of ordinary and partial differential equations both linear and non linear with particular reference to work relating to the equations of mathematical physics. The meeting was attended by about 250 mathematicians from 22 countries The papers in this volume all involve new research material with at least outline proofs some papers also contain survey material Topics covered include Schr dinger theory scattering and inverse scattering fluid mechanics including conservative systems and inertial manifold theory attractors elasticity non linear waves and feedback control theory Models and Methods of Magnetotellurics Mark N. Berdichevsky, Vladimir I. Dmitriev, 2010-07-15 Magnetotelluric methods are finding increasing applications for imaging electrically conductive structures below the Earth's surface in both industrial and academic research In Models and Methods of Magnetotellurics the authors provide a systematic approach to understanding the modern theory of ill posed problems which is essential to making confident meaningful interpretation of magnetotelluric and magnetovariational soundings The interpretation is conducted out in an interactive way including the hypotheses tests and successive partial inversions with priority of the tippers magnetic tensors and impedance phases which keeps out the destructive static effects of near surface inhomogeneities. The efficiency of the interpretation is exemplified by new geoelectric models of the Baikal rift zone and the Cascadian subduction zone

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