Explicit Iterative Methods of Second Order and Approximate Inverse Preconditioners for Solving Complex Computational Problems

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Abstract

Explicit Exact and Approximate Inverse Preconditioners for solving complex linear systems are introduced. A class of general iterative methods of second order is presented and the selection of iterative parameters is discussed. The second order iterative methods behave quite similar to first order methods and the development of efficient preconditioners for solving the original linear system is a decisive factor for making the second order iterative methods superior to the first order iterative methods. Adaptive preconditioned Conjugate Gradient methods using explicit approximate preconditioners for solving efficiently large sparse systems of algebraic equations are also presented. The generalized Approximate Inverse Matrix techniques can be efficiently used in conjunction with explicit iterative schemes leading to effective composite semi-direct solution methods for solving large linear systems of algebraic equations.

Keywords

Approximate Inverse Preconditioners, Iterative Methods, Second Order Iterative Schemes, Exact Inverse Methods, Approximate Inverse, Explicit Preconditioning, Conjugate Gradients, Convergence Analysis

1. Introduction

During the last decades, considerable research effort has been directed to the solution of complex linear and nonlinear systems of algebraic equation by using a class of iterative methods. This class includes the conjugate gradient method and its hybrid multi-variants. The conjugate gradient method originally introduced by Hestenes and Stiefel [1], was a direct solution method but later on has been extensively used as an iterative method for solving efficiently large sparse linear

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Robert Vichnevetsky,John James Henry Miller

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   Iterative Methods for Approximate Solution of Inverse Problems A.B. Bakushinsky,M.Yu. Kokurin,2007-09-28 This volume presents a unified approach to constructing iterative methods for solving irregular operator equations and provides rigorous theoretical analysis for several classes of these methods The analysis of methods includes convergence theorems as well as necessary and sufficient conditions for their convergence at a given rate The principal groups of methods studied in the book are iterative processes based on the technique of universal linear approximations stable gradient type processes and methods of stable continuous approximations Compared to existing monographs and textbooks on ill posed problems the main distinguishing feature of the presented approach is that it doesn t require any structural conditions on equations under consideration except for standard smoothness conditions This allows to obtain in a uniform style stable iterative methods applicable to wide classes of nonlinear inverse problems Practical efficiency of suggested algorithms is illustrated in application to inverse problems of potential theory and acoustic scattering The volume can be read by anyone with a basic knowledge of functional analysis The book will be of interest to applied mathematicians and specialists in mathematical modeling and inverse problems   **Iterative Methods for Approximate Solution of Inverse Problems** A. B. Bakushinsky,M. Yu. Kokurin,2014-09-01   KWIC Index for Numerical Algebra Alston Scott Householder,1972   **Iterative Regularization Methods for Nonlinear Ill-posed Problems** Barbara Kaltenbacher,Andreas Neubauer,Otmar Scherzer,2008 Nonlinear inverse problems appear in many applications and typically they lead to mathematical models that are ill posed i e they are unstable under data perturbations Those problems require a regularization i e a special numerical treatment This book presents regularization schemes which are based on iteration methods e g nonlinear Landweber iteration level set methods multilevel methods and Newton type methods   **Non-iterative Methods for Solving Operator Equations of the First Kind** John W. Hilgers,1973 The paper compares the reproducing kernel Hilbert space method for solving integral equations of the first kind with Tihonov regularization The methods are theoretically identical and differ in practice only in the way discretization is introduced Numerical examples are given Author   The Inverse Problem Heinz Lübbig,1995 This volume is in honour of Hermann von Helmholtz one of the most famous founders of science in the nineteenth century who also stood at the gateway from classical to modern physics and philosophy Emphasized is the role of inverse methodology in understanding the concept and theory of physical observation The volume is concerned with strategies that deal with inference from experimentally observed data regarding the source generating the signal that is with the logical inversion of cause and effect The significance is shown of the need for an interpretation of the data which stems from the amount of theory involved in physical experiments This problem was raised in an early work of Helmholtz 1853 Since then a powerful mathematical tool has been developed that finds application today in a broad range of problems in physics and physiology suitable not only for interpretation purposes but also useful as a constructive strategy The contents of

this volume indicate the meaning of inverse methodology within various selected physical and medical contexts A scientific biography and a presentation of Helmholtz s epistemology indicate his outstanding position in natural philosophy   Inverse Problems in Engineering Keith A. Woodbury,2000   **Computational Methods in Applied Mathematics** ,2004   Nonlinearity ,2007   **Moscow University Computational Mathematics and Cybernetics** Moskovskiĭ gosudarstvennyĭ universitet im. M.V. Lomonosova,1995   *Chinese Journal of Numerical Mathematics and Applications* ,2001   *Cornelius Lanczos, Collected Published Papers with Commentaries* Cornelius Lanczos,1998   Izvestiya, Russian Academy of Sciences ,1998   **Inverse Problems in Engineering** Didier Delaunay,Yvon Jarny,Keith A. Woodbury,1998 Presents 79 papers from the June 1996 conference covering a wide range of topics in the areas of mathematics mechanics and heat transfer Presented by scientists mathematicians and engineers from the U S and Europe papers include treatments of bidimensional inversion in microwave radiometric imaging iteration schemes for inverse obstacle problems and inverse approach to plasto hydrodynamic lubrication Annotation copyrighted by Book News Inc Portland OR   **IMACS '91** Robert Vichnevetsky,John James Henry Miller,1991   **Doklady** ,1993   *Mathematical Reviews* ,1999   *Advanced Technology Airfoil Research* ,1979   *NASA Conference Publication* ,1979   *Advanced Technology Airfoil Research, Volume 1, Part 1* ,1979

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