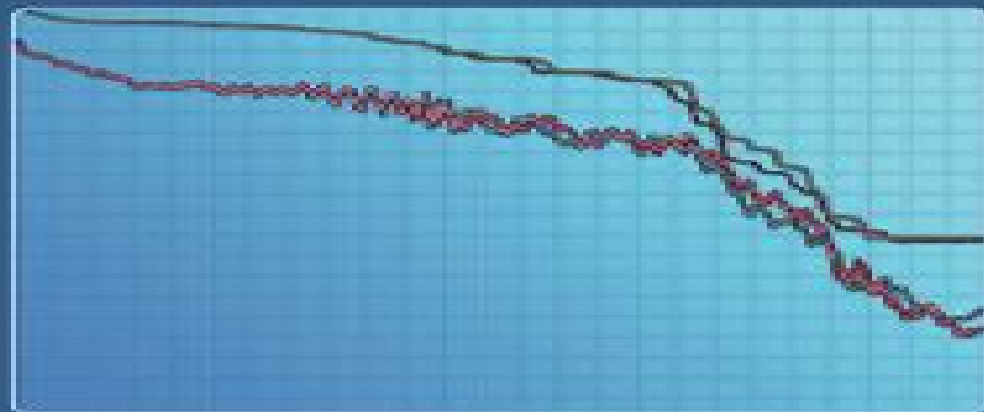


Numerical Methods for Least Squares Problems

Second Edition



Åke Björck

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The method of least squares discovered by Gauss in 1795 is a principal tool for reducing the influence of errors when fitting a mathematical model to given observations Applications arise in many areas of science and engineering The increased use of automatic data capturing frequently leads to large scale least squares problems Such problems can be solved by using recent developments in preconditioned iterative methods and in sparse QR factorization The first edition of *Numerical Methods for Least Squares Problems* was the leading reference on the topic for many years The updated second edition stands out compared to other books on this subject because it provides an in depth and up to date treatment of direct and iterative methods for solving different types of least squares problems and for computing the singular value decomposition It also is unique because it covers generalized constrained and nonlinear least squares problems as well as partial least squares and regularization methods for discrete ill posed problems The bibliography of over 1 100 historical and recent references provides a comprehensive survey of past and present research in the field This book will be of interest to graduate students and researchers in applied mathematics and to researchers working with numerical linear algebra applications **Solving Least Squares Problems** Charles L. Lawson, Richard J. Hanson, 1995-12-01

Numerical Methods for Least Squares Problems Åke Björck, 1996-01-01 The method of least squares was discovered by Gauss in 1795 It has since become the principal tool to reduce the influence of errors when fitting models to given observations Today applications of least squares arise in a great number of scientific areas such as statistics geodetics signal processing and control In the last 20 years there has been a great increase in the capacity for automatic data capturing and computing Least squares problems of large size are now routinely solved Tremendous progress has been made in numerical methods for least squares problems in particular for generalized and modified least squares problems and direct and iterative methods for sparse problems Until now there has not been a monograph that covers the full spectrum of relevant problems and methods in least squares This volume gives an in depth treatment of topics such as methods for sparse least squares problems iterative methods modified least squares weighted problems and constrained and regularized problems The more than 800 references provide a comprehensive survey of the available literature on the subject

Numerical Methods in Matrix Computations Åke Björck, 2014-10-07 Matrix algorithms are at the core of scientific computing and are indispensable tools in most applications in engineering This book offers a comprehensive and up to date treatment of modern methods in matrix computation It uses a unified approach to direct and iterative methods for linear systems least squares and eigenvalue problems A thorough analysis of the stability accuracy and complexity of the treated methods is given *Numerical Methods in Matrix Computations* is suitable for use in courses on scientific computing and

applied technical areas at advanced undergraduate and graduate level A large bibliography is provided which includes both historical and review papers as well as recent research papers This makes the book useful also as a reference and guide to further study and research work Numerical Methods for Solving Linear Least Squares Problems Gene Howard Golub,Peter Businger,1964 *Numerical Methods for Solving Linear Least Squares Problem. an Algol Procedure for Finding Linear Least Squares Solutions* G. GOLUB,Peter Businger,STANFORD UNIV CALIF SCHOOL OF HUMANITIES AND SCIENCES.,1964 **Numerical Matrix Analysis** Ilse C. F. Ipsen,2009-07-23 Matrix analysis presented in the context of numerical computation at a basic level **Numerical Methods for the Solution of Non-linear Least Squares Problems** David Lauren Nelson,1969 **Compact Numerical Methods for Computers** John C. Nash,1990-01-01 This second edition of Compact Numerical Methods for Computers presents reliable yet compact algorithms for computational problems As in the previous edition the author considers specific mathematical problems of wide applicability develops approaches to a solution and the consequent algorithm and provides the program steps He emphasizes useful applicable methods from various scientific research fields ranging from mathematical physics to commodity production modeling While the ubiquitous personal computer is the particular focus the methods have been implemented on computers as small as a programmable pocket calculator and as large as a highly parallel supercomputer New to the Second Edition Presents program steps as Turbo Pascal code Includes more algorithmic examples Contains an extended bibliography The accompanying software available by coupon at no charge includes not only the algorithm source codes but also driver programs example data and several utility codes to help in the software engineering of end user programs The codes are designed for rapid implementation and reliable use in a wide variety of computing environments Scientists statisticians engineers and economists who prepare modify programs for use in their work will find this resource invaluable Moreover since little previous training in numerical analysis is required the book can also be used as a supplementary text for courses on numerical methods and mathematical software **Numerical Methods : Least Squares Problems** EE Bjvrck,1996

Matrix Computations Gene H. Golub,Charles F. Van Loan,1996-10-15 Revised and updated the third edition of Golub and Van Loan s classic text in computer science provides essential information about the mathematical background and algorithmic skills required for the production of numerical software This new edition includes thoroughly revised chapters on matrix multiplication problems and parallel matrix computations expanded treatment of CS decomposition an updated overview of floating point arithmetic a more accurate rendition of the modified Gram Schmidt process and new material devoted to GMRES QMR and other methods designed to handle the sparse unsymmetric linear system problem *Acta Numerica 2004: Volume 13* Arieh Iserles,2004-06-03 An annual volume presenting substantive survey articles in numerical mathematics and scientific computing **Numerical Methods for Large Eigenvalue Problems** Yousef Saad,2011-05-26 This revised edition discusses numerical methods for computing the eigenvalues and eigenvectors of large sparse matrices It

provides an in depth view of the numerical methods that are applicable for solving matrix eigenvalue problems that arise in various engineering and scientific applications Each chapter was updated by shortening or deleting outdated topics adding topics of more recent interest and adapting the Notes and References section Significant changes have been made to Chapters 6 through 8 which describe algorithms and their implementations and now include topics such as the implicit restart techniques the Jacobi Davidson method and automatic multilevel substructuring

Numerical Methods for Solving Linear Least Squares Problems. An ALGOL Procedure for Finding Linear Least Squares Solutions Gene Howard Golub,1964

Numerical Methods for Solving Least Squares Problems United States. National Technical Information Service,1982 We have studied a number of computational problems in numerical linear algebra Most of these problems arise in statistical computations They include the following 1 Application of the conjugate gradient method to nonorthogonal analysis of variance 2 Use of orthogonalization procedures in geodetic problems 3 Algorithms for computing sample variance 4 Truncated Newton methods and 5 Imposing Curvature Restrictions on Flexible Functional Forms Author

The Total Least Squares Problem Sabine Van Huffel,Joos Vandewalle,1991-01-01 This is the first book devoted entirely to total least squares The authors give a unified presentation of the TLS problem A description of its basic principles are given the various algebraic statistical and sensitivity properties of the problem are discussed and generalizations are presented Applications are surveyed to facilitate uses in an even wider range of applications Whenever possible comparison is made with the well known least squares methods A basic knowledge of numerical linear algebra matrix computations and some notion of elementary statistics is required of the reader however some background material is included to make the book reasonably self contained

Numerical Methods for Solving Linear Least Squares Problems, by G.H. Golub. An ALGOL Procedure for Finding Linear Least Squares Solutions, by P.A. Businger Stanford University. Computer Science Department,G. H. Golub,P. A. Businger,1964

The Least-Squares Finite Element Method Bo-nan Jiang,2013-03-14 Here is a comprehensive introduction to the least squares finite element method LSFEM for numerical solution of PDEs It covers the theory for first order systems particularly the div curl and the div curl grad system Then LSFEM is applied systematically to permissible boundary conditions for the incompressible Navier Stokes equations to show that the divergence equations in the Maxwell equations are not redundant and to derive equivalent second order versions of the Navier Stokes equations and the Maxwell equations LSFEM is simple efficient and robust and can solve a wide range of problems in fluid dynamics and electromagnetics including incompressible viscous flows rotational inviscid flows low Mach number compressible flows two fluid and convective flows scattering waves etc

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