

Lecture Notes in Mathematics

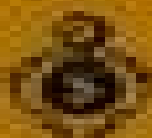
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Numerical Solution of Nonlinear Equations

Proceedings, Bremen 1980

Edited by E. L. Allgower, K. Glashoff and H.-O. Peitgen



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Numerical Solution Of Nonlinear Equations Proceedings Bremen 198

Joachim Erven, Vjačeslav V. Sazonov



Numerical Solution Of Nonlinear Equations Proceedings Bremen 198:

Numerical Solution of Nonlinear Equations E.L. Allgöwer, K. Glashoff, H.-O. Peitgen, 2006-11-14
Introduction to Numerical Continuation Methods Eugene L. Allgower, Kurt Georg, 2003-01-01
Numerical continuation methods have provided important contributions toward the numerical solution of nonlinear systems of equations for many years. The methods may be used not only to compute solutions which might otherwise be hard to obtain but also to gain insight into qualitative properties of the solutions. Introduction to Numerical Continuation Methods originally published in 1979 was the first book to provide easy access to the numerical aspects of predictor-corrector continuation and piecewise linear continuation methods. Not only do these seemingly distinct methods share many common features and general principles, they can be numerically implemented in similar ways. Introduction to Numerical Continuation Methods also features the piecewise linear approximation of implicitly defined surfaces, the algorithms of which are frequently used in computer graphics, mesh generation, and the evaluation of surface integrals.

Numerical Continuation Methods Eugene L. Allgower, Kurt Georg, 2012-12-06
Over the past fifteen years, two new techniques have yielded extremely important contributions toward the numerical solution of nonlinear systems of equations. This book provides an introduction to and an up-to-date survey of numerical continuation methods, tracing of implicitly defined curves of both predictor-corrector and piecewise linear types. It presents and analyzes implementations aimed at applications to the computation of zero points, fixed points, nonlinear eigenvalue problems, bifurcation and turning points, and economic equilibria. Many algorithms are presented in a pseudo-code format. An appendix supplies five sample FORTRAN programs with numerical examples which readers can adapt to fit their purposes and a description of the program package SCOUT for analyzing nonlinear problems via piecewise linear methods. An extensive up-to-date bibliography spanning 46 pages is included. The material in this book has been presented to students of mathematics, engineering, and sciences with great success and will also serve as a valuable tool for researchers in the field.

Reviews in Numerical Analysis, 1980-86, 1987
These five volumes bring together a wealth of bibliographic information in the area of numerical analysis. Containing over 17,600 reviews of articles, books, and conference proceedings, these volumes represent all the numerical analysis entries that appeared in Mathematical Reviews between 1980 and 1986. Author and key indexes appear at the end of volume 5.

Subject Catalog, 1982 Library of Congress, 1982
Numerical Approximation of Ordinary Differential Problems Raffaele D'Ambrosio, 2023-09-26
This book is focused on the numerical discretization of ordinary differential equations (ODEs) under several perspectives. The attention is first conveyed to providing accurate numerical solutions of deterministic problems. Then the presentation moves to a more modern vision of numerical approximation oriented to reproducing qualitative properties of the continuous problem along the discretized dynamics over long times. The book finally performs some steps in the direction of stochastic differential equations (SDEs) with the intention of offering useful tools to generalize the techniques introduced

for the numerical approximation of ODEs to the stochastic case as well as of presenting numerical issues natively introduced for SDEs The book is the result of an intense teaching experience as well as of the research carried out in the last decade by the author It is both intended for students and instructors for the students this book is comprehensive and rather self contained for the instructors there is material for one or more monographic courses on ODEs and related topics In this respect the book can be followed in its designed path and includes motivational aspects historical background examples and a software programs implemented in Matlab that can be useful for the laboratory part of a course on numerical ODEs SDEs The book also contains the portraits of several pioneers in the numerical discretization of differential problems useful to provide a framework to understand their contributes in the presented fields Last but not least rigor joins readability in the book

Numerical Solution of Nonlinear Equations ,1902 **Subject Catalog** Library of Congress,1982 *Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews* ,1988 **Numerical Solution of Nonlinear Equations** ,

Springer Handbook of Semiconductor Devices Massimo Rudan,Rossella Brunetti,Susanna Reggiani,2022-11-10 This Springer Handbook comprehensively covers the topic of semiconductor devices embracing all aspects from theoretical background to fabrication modeling and applications Nearly 100 leading scientists from industry and academia were selected to write the handbook s chapters which were conceived for professionals and practitioners material scientists physicists and electrical engineers working at universities industrial R D and manufacturers Starting from the description of the relevant technological aspects and fabrication steps the handbook proceeds with a section fully devoted to the main conventional semiconductor devices like e g bipolar transistors and MOS capacitors and transistors used in the production of the standard integrated circuits and the corresponding physical models In the subsequent chapters the scaling issues of the semiconductor device technology are addressed followed by the description of novel concept based semiconductor devices The last section illustrates the numerical simulation methods ranging from the fabrication processes to the device performances Each chapter is self contained and refers to related topics treated in other chapters when necessary so that the reader interested in a specific subject can easily identify a personal reading path through the vast contents of the handbook

Physics Briefs ,1983 International Books in Print, 1995 Barbara Hopkinson,[Anonymus AC01401231],1995 Noise and Fluctuations in Econophysics and Finance Derek Abbott,2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Numerical Solution of Nonlinear Equations Joachim Erven,Vjačeslav V. Sazonov,1981 **Aerospace Medicine and Biology** ,1988 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Continuous**

Lattices B. Banaschewski,R.-E. Hoffmann,2006-11-14

Mathematical Reviews ,2006

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