



# **GNU Octave Manual**

## **Version 3**

**John W. Eaton  
David Bateman  
Soren Hauberg**

# Gnu Octave Manual Version 3

**Sergei V. Chekanov**



### **Gnu Octave Manual Version 3:**

**GNU Octave Version 3. 0. 1 Manual** John Eaton,2012-04-30 This manual is the definitive guide to GNU Octave an interactive environment for numerical computation GNU Octave provides a convenient command line interface for solving linear and nonlinear problems using vectors and matrices This updated edition of the manual covers version 3 of GNU Octave and includes documentation for new features such as sparse matrices linear programming and computational geometry GNU Octave is free software distributed under the GNU General Public License GPL All the money raised from the sale of this book supports the development of free software For each copy sold 1 will be donated to the GNU Octave Development Fund About the authors John W Eaton is the original developer of GNU Octave     [Gnu Octave Version 3. 0. 1 Manual](#) John W. Eaton,David Bateman,Soren Hauberg,2009-03-20 GNU Octave MANUAL Edition 3 for Octave version 3 0 1 Octave is a high level interactive language for numerical computations This is the manual for GNU Octave This edition of the manual covers the latest version 3 0 of GNU Octave and includes documentation for new features such as sparse matrices linear programming and computational geometry GNU Octave is free software distributed under the GNU General Public License GPL All the money raised from the sale of this book supports the development of free software and manuals For each copy sold 1 will be donated to the GNU Octave Development Fund     [Essential MATLAB and Octave](#) Jesus Rogel-Salazar,2014-11-06 Learn Two Popular Programming Languages in a Single Volume Widely used by scientists and engineers well established MATLAB and open source Octave are similar software programs providing excellent capabilities for data analysis visualization and more By means of straightforward explanations and examples from different areas in mathematics engineering finance and physics Essential MATLAB and Octave explains how MATLAB and Octave are powerful tools applicable to a variety of problems This text provides an introduction that reveals basic structures and syntax demonstrates the use of functions and procedures outlines availability in various platforms and highlights the most important elements for both programs Effectively Implement Models and Prototypes Using Computational Models This text requires no prior knowledge Self contained it allows the reader to use the material whenever needed rather than follow a particular order Compatible with both languages the book material incorporates commands and structures that allow the reader to gain a greater awareness of MATLAB and Octave write their own code and implement their scripts and programs within a variety of applicable fields It is always made clear when particular examples apply only to MATLAB or only to Octave allowing the book to be used flexibly depending on readers requirements Includes brief simple code that works in both MATLAB and Octave Provides exercise sections at the end of each chapter Introduces framed examples and discussions with a scientific twist Exercises are provided at the end of each chapter Essential MATLAB and Octave offers an introductory course in MATLAB and Octave programming and is an authoritative resource for students in physics mathematics statistics engineering and any other subjects that require the use of computers to solve numerical problems     **A Student's Guide to**

**the Study, Practice, and Tools of Modern Mathematics** Donald Bindner, Martin Erickson, 2010-11-29 A Student's Guide to the Study Practice and Tools of Modern Mathematics provides an accessible introduction to the world of mathematics. It offers tips on how to study and write mathematics as well as how to use various mathematical tools from LaTeX and Beamer to Mathematica and Maple to MATLAB and R. Along with a color insert, the text includes **Scientific Computing with MATLAB and Octave**. Alfio Quarteroni, Fausto Saleri, Paola Gervasio, 2014-02-20 This textbook is an introduction to Scientific Computing in which several numerical methods for the computer-based solution of certain classes of mathematical problems are illustrated. The authors show how to compute the zeros, the extrema, and the integrals of continuous functions, solve linear systems, approximate functions using polynomials, and construct accurate approximations for the solution of ordinary and partial differential equations. To make the format concrete and appealing, the programming environments Matlab and Octave are adopted as faithful companions. The book contains the solutions to several problems posed in exercises and examples, often originating from important applications. At the end of each chapter, a specific section is devoted to subjects which were not addressed in the book and contains bibliographical references for a more comprehensive treatment of the material. From the review: This carefully written textbook, the third English edition, contains substantial new developments on the numerical solution of differential equations. It is typeset in a two-color design and is written in a style suited for readers who have mathematics, natural sciences, computer sciences, or economics as a background and who are interested in a well-organized introduction to the subject. Roberto Plato, Siegen Zentralblatt MATH 1205.65002 Handbook of Computational Finance Jin-Chuan Duan, Wolfgang Karl Härdle, James E. Gentle, 2011-10-25 Any financial asset that is openly traded has a market price. Except for extreme market conditions, market price may be more or less than a fair value. Fair value is likely to be some complicated function of the current intrinsic value of tangible or intangible assets underlying the claim and our assessment of the characteristics of the underlying assets with respect to the expected rate of growth, future dividends, volatility, and other relevant market factors. Some of these factors that affect the price can be measured at the time of a transaction with reasonably high accuracy. Most factors, however, relate to expectations about the future and to subjective issues such as current management, corporate policies, and market environment that could affect the future financial performance of the underlying assets. Models are thus needed to describe the stochastic factors and environment and their implementations inevitably require computational finance tools. Quantitative Methods in Tourism Rodolfo Baggio, Jane Klobas, 2011-03-15 Tourism studies often deal with complex mixes of external and local factors and the attitudes, perceptions, and actions of tourists themselves. In seeking to understand individual elements of this mix or the results of interactions between them, tourism authorities, managers, and researchers often collect quantitative data, but until now the few existing guides to understanding quantitative data have been either very simple or very complicated. This book provides a guide to dealing with real-world data and goes beyond the methods usually covered in introductory textbooks. The first part considers key issues

associated with using well known methods to produce valid and reliable models of real world phenomena emphasizing issues in data selection approaches to factor and cluster analysis and mathematical modelling using regression methods including logistic regression and structural equation modelling The second part covers new approaches to modelling maximum likelihood estimation simulation and agent based modelling Each chapter includes extensive references to additional reading and an appendix summarises the software introduced in the book The book provides many practical examples of applications to tourism research considers practical issues associated with application of quantitative techniques and discusses common pitfalls and how to identify and remedy them The result is a guide to quantitative methods in tourism that demystifies both simple and apparently complex techniques and makes them more accessible to tourism researchers

**Biomedical Signal Processing** Ganesh Naik, 2019-11-12 This book reports on the latest advances in the study of biomedical signal processing and discusses in detail a number of open problems concerning clinical biomedical and neural signals It methodically collects and presents in a unified form the research findings previously scattered throughout various scientific journals and conference proceedings In addition the chapters are self contained and can be read independently Accordingly the book will be of interest to university researchers R D engineers and graduate students who wish to learn the core principles of biomedical signal analysis algorithms and applications while also offering a valuable reference work for biomedical engineers and clinicians who wish to learn more about the theory and recent applications of neural engineering and biomedical signal processing

**Numerical Methods for the Life Scientist** Heino Prinz, 2011-08-06 Enzyme kinetics binding kinetics and pharmacological dose response curves are currently analyzed by a few standard methods Some of these like Michaelis Menten enzyme kinetics use plausible approximations others like Hill equations for dose response curves are outdated Calculating realistic reaction schemes requires numerical mathematical routines which usually are not covered in the curricula of life science This textbook will give a step by step introduction to numerical solutions of non linear and differential equations It will be accompanied with a set of programs to calculate any reaction scheme on any personal computer Typical examples from analytical biochemistry and pharmacology can be used as versatile templates When a reaction scheme is applied for data fitting the resulting parameters may not be unique Correlation of parameters will be discussed and simplification strategies will be offered

**Intelligent Data Engineering and Automated Learning -- IDEAL 2012** Hujun Yin, Jose A.F. Costa, Guilherme Barreto, 2012-08-01 This book constitutes the refereed proceedings of the 13th International Conference on Intelligent Data Engineering and Automated Learning IDEAL 2012 held in Natal Brazil in August 2012 The 100 revised full papers presented were carefully reviewed and selected from more than 200 submissions for inclusion in the book and present the latest theoretical advances and real world applications in computational intelligence

*High performance computing for solving large sparse systems. Optical diffraction tomography as a case of study* Gloria Ortega López, 2015-04-14 This thesis entitled High Performance Computing for solving large sparse systems Optical

Diffraction Tomography as a case of study investigates the computational issues related to the resolution of linear systems of equations which come from the discretization of physical models described by means of Partial Differential Equations PDEs. These physical models are conceived for the description of the space temporary behavior of some physical phenomena  $f(x, y, z, t)$  in terms of their variations partial derivative with respect to the dependent variables of the phenomena. There is a wide variety of discretization methods for PDEs. Two of the most well known methods are the Finite Difference Method FDM and the Finite Element Method FEM. Both methods result in an algebraic description of the model that can be translated into the approach of a linear system of equations of type  $Ax = b$  where  $A$  is a sparse matrix, a high percentage of zero elements whose size depends on the required accuracy of the modeled phenomena. This thesis begins with the algebraic description of the model associated with the physical phenomena and the work herein has been focused on the design of techniques and computational models that allow the resolution of these linear systems of equations. The main interest of this study is specially focused on models which require a high level of discretization and usually generate sparse matrices  $A$  which have a highly sparse structure and large size. Literature characterizes these types of problems by their high demanding computational requirements because of their fine degree of discretization and the sparsity of the matrices involved, suggesting that these kinds of problems can only be solved using High Performance Computing techniques and architectures. One of the main goals of this thesis is the research of the possible alternatives which allow the implementation of routines to solve large and sparse linear systems of equations using High Performance Computing HPC. The use of massively parallel platforms GPUs allows the acceleration of these routines because they have several advantages for vectorial computation schemes. On the other hand, the use of distributed memory platforms allows the resolution of problems defined by matrices of enormous size. Finally, the combination of both techniques distributed computation and multi GPUs will allow faster resolution of interesting problems in which large and sparse matrices are involved. In this line, one of the goals of this thesis is to supply the scientific community with implementations based on multi GPU clusters to solve sparse linear systems of equations which are the key in many scientific computations. The second part of this thesis is focused on a real physical problem of Optical Diffractional Tomography ODT based on holographic information. ODT is a non damaging technique which allows the extraction of the shapes of objects with high accuracy. Therefore, this technique is very suitable to the in vivo study of real specimens, microorganisms, etc., and it also makes the investigation of their dynamics possible. A preliminary physical model based on a bidimensional reconstruction of the seeding particle distribution in fluids was proposed by J. Lobera and J. M. Coupland. However, its high computational cost in both memory requirements and runtime made compulsory the use of HPC techniques to extend the implementation to a three dimensional model. In the second part of this thesis, the implementation and validation of this physical model for the case of three dimensional reconstructions is carried out. In such implementation, the resolution of large and sparse linear systems of equations is required. Thus, some of the algebraic routines developed in

the first part of the thesis have been used to implement computational strategies capable of solving the problem of 3D reconstruction based on ODT

**Numeric Computation and Statistical Data Analysis on the Java Platform** Sergei V. Chekanov, 2016-03-23 Numerical computation knowledge discovery and statistical data analysis integrated with powerful 2D and 3D graphics for visualization are the key topics of this book The Python code examples powered by the Java platform can easily be transformed to other programming languages such as Java Groovy Ruby and BeanShell This book equips the reader with a computational platform which unlike other statistical programs is not limited by a single programming language The author focuses on practical programming aspects and covers a broad range of topics from basic introduction to the Python language on the Java platform Jython to descriptive statistics symbolic calculations neural networks non linear regression analysis and many other data mining topics He discusses how to find regularities in real world data how to classify data and how to process data for knowledge discoveries The code snippets are so short that they easily fit into single pages Numeric Computation and Statistical Data Analysis on the Java Platform is a great choice for those who want to learn how statistical data analysis can be done using popular programming languages who want to integrate data analysis algorithms in full scale applications and deploy such calculations on the web pages or computational servers regardless of their operating system It is an excellent reference for scientific computations to solve real world problems using a comprehensive stack of open source Java libraries included in the DataMelt DMelt project and will be appreciated by many data analysis scientists engineers and students

**Mathematical Optimization Theory and Operations Research** Panos Pardalos, Michael Khachay, Alexander Kazakov, 2021-06-14 This book constitutes the proceedings of the 20th International Conference on Mathematical Optimization Theory and Operations Research MOTOR 2021 held in Irkutsk Russia in July 2021 The 29 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 102 submissions Additionally 2 full invited papers are presented in the volume The papers are grouped in the following topical sections combinatorial optimization mathematical programming bilevel optimization scheduling problems game theory and optimal control operational research and mathematical economics data analysis

**Information Technologies and Mathematical Modelling** Alexander Dudin, Anatoly Nazarov, Rafael Yakupov, Alexander Gortsev, 2014-11-04 This book constitutes the refereed proceedings of the 13th International Scientific Conference on Information Technologies and Mathematical Modeling named after A F Terpugov ITMM 2014 Anzhero Sudzhensk Russia held in Anzhero Sudzhensk Russia in November 2014 The 50 full papers included in this volume were carefully reviewed and selected from 254 submissions The papers focus on probabilistic methods and models queueing theory telecommunication systems and software engineering

**Underwater Robots** Gianluca Antonelli, 2018-04-05 A classic in underwater robotics One of the first volumes in the Springer Tracts in Advanced Robotics series it has been a bestseller through the previous three editions Fifteen years after the publication of the first edition the fourth edition comes to print The book addresses the main control aspects in underwater manipulation tasks With respect to

the third edition it has been revised extended and some concepts better clustered The mathematical model with significant impact on the control strategy is discussed The problem of controlling a 6 degrees of freedoms autonomous underwater vehicle is investigated and a survey of fault detection tolerant strategies for unmanned underwater vehicles is provided Inverse kinematics dynamic and interaction control for underwater vehicle manipulator systems are then discussed The code used to generate most of the numerical simulations is made available and briefly discussed

**Computer Networks** Andrzej Kwiecien,Piotr Gaj,Piotr Stera,2011-06-06 This book constitutes the refereed proceedings of the 18th Conference on Computer Networks CN 2011 held in Ustron Poland in June 2011 The 50 revised full papers presented were carefully reviewed and selected for inclusion in the book The papers can be divided into the following subject groups molecular networks network issues related to nano and quantum technology new technologies related to the Computer Networks fundamentals of computer networks architecture and programming internet networks data security in distributed systems industrial computer networks applications of computer networks

Information Technologies and Mathematical Modelling - Queueing Theory and Applications Alexander Dudin,Anatoly Nazarov,Rafael Yakupov,2015-12-08 This book constitutes the refereed proceedings fo the 14th International Scientific Conference on Information Technologies and Mathematical Modeling named after A F Terpugov ITMM 2015 held in Anzhero Sudzhensk Russia in November 2015 The 35 full papers included in this volume were carefully reviewed and selected from 89 submissions They are devoted to new results in the queueing theory and its applications addressing specialists in probability theory random processes mathematical modeling as well as engineers dealing with logical and technical design and operational management of telecommunication and computer networks

*Proceedings of the 9th International Conference on Industrial Engineering* Andrey A. Radionov,Vadim R. Gasiyarov,2023-08-28 This book highlights recent findings in industrial manufacturing and mechanical engineering and provides an overview of the state of the art in these fields mainly in Russia and Eastern Europe A broad range of topics and issues in modern engineering is discussed including the machinery and mechanism design dynamics of machines and working processes friction wear and lubrication in machines design and manufacturing engineering of industrial facilities transport and technological machines mechanical treatment of materials industrial hydraulic systems This book gathers selected papers presented at the 9th International Conference on Industrial Engineering ICIE held in Sochi Russia in May 2023 The authors are experts in various fields of engineering and all papers have been carefully reviewed Given its scope this book will be of interest to a wide readership including mechanical and production engineers lecturers in engineering disciplines and engineering graduates

**The Gnu Octave 3.8 Reference Manual - Part 1/2** John W Eaton,David Bateman,Soren Hauberg,2014-11-15 This manual is the definitive guide to GNU Octave an interactive environment for numerical computation GNU Octave provides a convenient command line interface for solving linear and nonlinear problems using vectors and matrices This updated edition of the manual covers version 3.8.2 of GNU Octave and includes



documentation for new features such as the new graphical userinterface sparse matrices linear programming and computational geometry GNU Octave is free software distributed under the GNU General Public License GPL As GNU Octave became such a big project over the years we had to split this reference manual in two parts that are two seperate physical books To keep it consistent with our digital manual the references and page numbers cover both physical books as it were one Therefore please note that you probably want to have both parts      *Basic Analysis III* James K. Peterson, 2020-07-19

Basic Analysis III Mappings on Infinite Dimensional Spaces is intended as a first course in abstract linear analysis This textbook cover metric spaces normed linear spaces and inner product spaces along with many other deeper abstract ideas such a completeness operators and dual spaces These topics act as an important tool in the development of a mathematically trained scientist Feature Can be used as a traditional textbook as well as for self study Suitable for undergraduates in mathematics and associated disciplines Emphasizes learning how to understand the consequences of assumptions using a variety of tools to provide the proofs of propositions

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