GNU OCTAVE

Version 3.0.1
MANUAL

A high-level
interactive language
for numerical computations

Edition 3
for Octave version 3.0.1

John W. Eaton, David Bateman, Søren Hauberg

Gnu Octave Version 301 Manual A High Level Interactive Language For Numerical Computations

S. Nakamura

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11th International Conference on Practical Applications of Computational Biology & Bioinformatics Florentino Fdez-Riverola,Mohd Saberi Mohamad,Miguel Rocha,Juan F. De Paz,Tiago Pinto,2017-06-19 Biological and biomedical research are increasingly driven by experimental techniques that challenge our ability to analyse process and extract meaningful knowledge from the underlying data The impressive capabilities of next generation sequencing technologies together with novel and constantly evolving distinct types of omics data technologies have created an increasingly complex set of challenges for the growing fields of Bioinformatics and Computational Biology The analysis of the datasets produced and their integration call for new algorithms and approaches from fields such as Databases Statistics Data Mining Machine Learning Optimization Computer Science and Artificial Intelligence Clearly Biology is more and more a science of information and requires tools from the computational sciences In the last few years we have seen the rise of a new generation of interdisciplinary scientists with a strong background in the biological and computational sciences In this context the interaction of researchers from different scientific fields is more than ever of foremost importance in boosting the research efforts in the field and contributing to the education of a new generation of Bioinformatics scientists The PACBB 17 conference was intended to contribute to this effort and promote this fruitful interaction with a technical program that included 39 papers spanning many different sub fields in Bioinformatics and Computational Biology Further the conference promoted the interaction of scientists from diverse research groups and with a distinct background computer scientists mathematicians biologists   **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   *Gnu Octave Manual* John W. Eaton,2002 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 Its language will be familiar to users of other matrix environments This manual covers the stable release of GNU Octave 2 0 17   **From CO2 emissions to Fuels and Chemicals: Current Development, Challenges and Perspectives** Adele Brunetti,Simon Roussanaly,Juliana Monteiro,Claudio Pistidda,Rahul Anantharaman,2022-01-12   **GNU octave : a high-level interactive language for numerical computations** John Wesley Eaton,1997   *GNU Octave* John Wesley Eaton,David Bateman,Søren Hauberg,2008 This reference manual is the definitive guide to the GNU Scientific Library GSL a numerical library for C and C programmers The manual documents over

1 000 mathematical routines needed for solving problems in science and engineering This third edition has been updated for version 1 12 January 2009 It features numerous corrections new examples and function descriptions including routines for nonsymmetric and generalised eigensystems basis splines and Mathieu functions The GPG key used to sign the GSL source is included in the manual allowing you to check downloaded files for security The authors of this manual are the original developers of the GNU Scientific Library   *GNU Octave* John Wesley Eaton,1997   *Gnu Octave* Joseph W. Eaton,2005

   Introduction to Octave Sandeep Nagar,2017-11-25 Familiarize yourself with Octave using this concise practical tutorial that is focused on writing code to learn concepts Starting from the basics this book covers array based computing plotting and working with files in Octave which can run MATLAB files without modification Introduction to Octave is useful for industry engineers researchers and students who are looking for open source solutions for numerical computation In this book you will learn by doing avoiding technical jargon which makes the concepts easy to learn First you ll see how to run basic calculations absorbing technical complexities incrementally as you progress toward advanced topics Throughout the language is kept simple to ensure that readers at all levels can grasp the concepts What You ll Learn Apply sample code to your engineering or science problems Work with Octave arrays functions andloops Use Octave s plotting functions for data visualization Solve numerical computing and computational engineering problems with Octave Who This Book Is For Engineers scientists researchers and students who are new to Octave Some prior programming experience would be helpful but not required   Introduction to GNU Octave Jason Lachniet,2017-08-14 This guide is heavy on linear algebra and makes a good supplement to a linear algebra textbook But it is assumed that any college student studying linear algebra will also be studying calculus and differential equations maybe statistics Therefore it makes sense to apply the Octave skills learned for linear algebra to these subjects as well Chapters 3 and 5 have several applications to calculus differential equations and statistics The overarching objective is to enhance our understanding of calculus and linear algebra using Octave as a tool for computations For the most part we will not address issues of accuracy and round off error in machine arithmetic For more details about numerical issues refer to 1 which also contains many useful Octave examples To get started read Chapter 1 without worrying too much about any of the mathematics you don t yet understand After grasping the basics you should be able to move into any of the chapters or sections that interest you Every chapter concludes with a set of problems some of which are routine practice and some of which are more extended applied projects Most examples assume the reader is familiar with the mathematics involved In a few cases more detailed explanation of relevant theorems is given by way of motivation but there are no proofs Refer to the linear algebra and calculus books listed in the references for background on the underlying mathematics In the spirit of openness all references listed are available for free under GNU or Creative Commons licenses and can be accessed using the links provided Open Textbook Library   **GNU Octave** Jesper Schmidt Hansen,2011 This is a practical step by step guide that will help you to quickly become a proficient Octave user The book is

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MATLAB files without modifications Present book gives introduction to Octave for a new user Starting from very basic it goes on to explain array based computing plotting and working with files The book is useful for students researchers and students who are looking for a open source software for numerical computation It is written in a very concise format where learn by doing methodology is adopted so that new user can start developing quickly CHAPTERS 1 Introduction to octave 2 Interactive Octave Sessions 3 Working with Arrays 4 Plotting 5 Data through file reading and writing 6 Functions and loops 7 Numerical computing formalism   Gnu Octave Primer for Beginners S. Nakamura,2016-02-16 This is the second edition of the book titled GNU OCTAVE FOR BEGINNERS A number of enhancements have been made some of the subjects are explained in more details additional sections are added and exercise problems and answers are added along with the programs used to answer the problems The total number of pages are nearly 40% increased   **Programming Manual** Ohio State University. Numerical Computation Laboratory,1962

Unveiling the Magic of Words: A Report on "**Gnu Octave Version 301 Manual A High Level Interactive Language For Numerical Computations**"

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web the magnetic field that results from powering the coils is present whether the beam is there or not we are interested in finding the field in this aperture and also in knowing how to build a magnet to get the desired field typically accelerators and beamlines have magnets that serve individual functions

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web pulling together superconducting electromagnets particles zipping round the lhc at close to the speed of light must follow precise paths powerful magnets keep the beams stable accurate and safe the large hadron collider lhc is currently operating at the energy of 6 5 tev per beam

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web the electron beam is bent by a toroidal magnetic coil at the beginning and end of the overlap region collisions between the continuously renewed electron beam and the ions serve to reduce the random motions of the ions leading to a high energy resolution

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web aug 1 2018   share tools in this article we present a method to design a coil producing an arbitrarily shaped magnetic field by restricting the path of the coil s wires to a regular grid the solution is then found by a simple least squares minimum

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web two pairs of magnetic coils are usually placed near the entrance far end of the waveguide to bend the direction of

electron beam radially and transversely these are called directional bending magnetic coils

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web the coil is bent at an acute angle at the center between the left and right wings the bending forces the coil to conform to the shape of the human head moreover it results in an increased depth of the induced electric fields in the brain

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web an electromagnetic coil is an electrical conductor such as a wire in the shape of a coil spiral or helix electromagnetic coils are used in electrical engineering in applications where electric currents interact with magnetic fields in devices such as electric motors generators inductors electromagnets transformers and

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web number of conductor turns in a coil is n magnetic field strength h 1 oe 103 4 a m 79 58 a m mmf magnetic flux 1 wb 1 vs assignment design a 90 degree bending magnet for beam analysis with the duoplasmatron

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web where h is the strength of the magnetic field in ampere turns metre at m n is the number of turns of the coil i is the current flowing through the coil in amps a l is the length of the coil in metres m then to summarise the strength or intensity of a coils magnetic field depends on the following factors the number of turns of wire within the coil

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web a superconducting magnet is an electromagnet made from coils of superconducting wire they must be cooled to cryogenic temperatures during operation in its superconducting state the wire has no electrical resistance and therefore can conduct much larger electric currents than ordinary wire creating intense magnetic fields