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GNU Octave

Become a proficient Octave user by learning this high-level scientific numerical tool from the ground up

Beginner's Guide

Jesper Schmidt Hansen

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GNU Octave Jesper Schmidt Hansen,2011-06-21 Today scientific computing and data analysis play an integral part in most scientific disciplines ranging from mathematics and biology to imaging processing and finance With GNU Octave you have a highly flexible tool that can solve a vast number of such different problems as complex statistical analysis and dynamical system studies The GNU Octave Beginner s Guide gives you an introduction that enables you to solve and analyze complicated numerical problems The book is based on numerous concrete examples and at the end of each chapter you will find exercises to test your knowledge It s easy to learn GNU Octave with the GNU Octave Beginner s Guide to hand Using real world examples the GNU Octave Beginner s Guide will take you through the most important aspects of GNU Octave This practical guide takes you from the basics where you are introduced to the interpreter to a more advanced level where you will learn how to build your own specialized and highly optimized GNU Octave toolbox package The book starts by introducing you to work variables like vectors and matrices demonstrating how to perform simple arithmetic operations on these objects before explaining how to use some of the simple functionality that comes with GNU Octave including plotting It then goes on to show you how to write new functionality into GNU Octave and how to make a toolbox package to solve your specific problem Finally it demonstrates how to optimize your code and link GNU Octave with C and C code enabling you to solve even the most computationally demanding tasks After reading GNU Octave Beginner s Guide you will be able to use and tailor GNU Octave to solve most numerical problems and perform complicated data analysis with ease

Informatics and Cybernetics in Intelligent Systems Radek Silhavy,2021-07-15 This book constitutes the refereed proceedings of the informatics and cybernetics in intelligent systems section of the 10th Computer Science Online Conference 2021 CSOC 2021 held online in April 2021 Modern cybernetics and computer engineering papers in the scope of intelligent systems are an essential part of actual research topics In this book a discussion of modern algorithms approaches techniques is held The Gnu Octave 4.0 Reference Manual 2/2: Free Your Numbers John W. Eaton,David Bateman,Soren Hauberg,2015-10-23

GNU Octave 4.2 Reference Manual John W. Eaton,David Bateman,Søren Hauberg,2017-05-06 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 4.2.1 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

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