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GNU Scientific Library

2.0



The GSL Team

Gnu Scientific Library

Robert Johnson



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addresses the important tools and techniques that are necessary for scientific computing but which are not yet commonplace in science and engineering curricula This book contains chapters summarizing the most important topics that computational researchers need to know about It leverages the viewpoints of passionate experts involved with scientific computing courses around the globe and aims to be a starting point for new computational scientists and a reference for the experienced Each contributed chapter focuses on a specific tool or skill providing the content needed to provide a working knowledge of the topic in about one day While many individual books on specific computing topics exist none is explicitly focused on getting technical professionals and students up and running immediately across a variety of computational areas

Big Practical Guide To Computer Simulations (2nd Edition) Alexander K Hartmann, 2015-01-29 This book teaches you all necessary problem independent tools and techniques needed to implement and perform sophisticated scientific numerical simulations Thus it is suited for undergraduate and graduate students who want to become experts in computer simulations in Physics Chemistry Biology Engineering Computer Science and other fields

Shock Wave Science and Technology Reference Library, Vol. 2 Y. Horie, 2007-04-26 This book is the first of several volumes on solids in the Shock Wave Science and Technology Reference Library This is a unique collection and the library as a whole sets out to comprehensively and authoritatively cover and review at research level the subject matter with all its ramifications All the chapters are self contained and can be read independently of each other though they are of course thematically interrelated

21st Century C Ben Klemens, 2014-09-27 Throw out your old ideas about C and get to know a programming language that s substantially outgrown its origins With this revised edition of 21st Century C you ll discover up to date techniques missing from other C tutorials whether you re new to the language or just getting reacquainted C isn t just the foundation of modern programming languages it is a modern language ideal for writing efficient state of the art applications Get past idioms that made sense on mainframes and learn the tools you need to work with this evolved and aggressively simple language No matter what programming language you currently favor you ll quickly see that 21st century C rocks Set up a C programming environment with shell facilities makefiles text editors debuggers and memory checkers Use Autotools C s de facto cross platform package manager Learn about the problematic C concepts too useful to discard Solve C s string building problems with C standard functions Use modern syntactic features for functions that take structured inputs Build high level object based libraries and programs Perform advanced math talk to internet servers and run databases with existing C libraries This edition also includes new material on concurrent threads virtual tables C99 numeric types and other features

Algorithms from and for Nature and Life Berthold Lausen, Dirk Van den Poel, Alfred Ultsch, 2013-08-28 This volume provides approaches and solutions to challenges occurring at the interface of research fields such as e g data analysis data mining and knowledge discovery computer science operations research and statistics In addition to theory oriented contributions various application areas are included Moreover traditional classification research directions concerning network data graphs and social

relationships as well as statistical musicology describe examples for current interest fields tackled by the authors The book comprises a total of 55 selected papers presented at the Joint Conference of the German Classification Society GfKl the German Association for Pattern Recognition DAGM and the Symposium of the International Federation of Classification Societies IFCS in 2011

Seamless R and C++ Integration with Rcpp Dirk Eddelbuettel, 2013-06-04 Rcpp is the glue that binds the power and versatility of R with the speed and efficiency of C With Rcpp the transfer of data between R and C is nearly seamless and high performance statistical computing is finally accessible to most R users Rcpp should be part of every statistician's toolbox Michael Braun MIT Sloan School of Management Seamless R and C integration with Rcpp is simply a wonderful book For anyone who uses C C and R it is an indispensable resource The writing is outstanding A huge bonus is the section on applications This section covers the matrix packages Armadillo and Eigen and the GNU Scientific Library as well as RInside which enables you to use R inside C These applications are what most of us need to know to really do scientific programming with R and C I love this book Robert McCulloch University of Chicago Booth School of Business Rcpp is now considered an essential package for anybody doing serious computational research using R Dirk's book is an excellent companion and takes the reader from a gentle introduction to more advanced applications via numerous examples and efficiency enhancing gems The book is packed with all you might have ever wanted to know about Rcpp its cousins RcppArmadillo RcppEigen etc modules package development and sugar Overall this book is a must have on your shelf Sanjog Misra UCLA Anderson School of Management The Rcpp package represents a major leap forward for scientific computations with R With very few lines of C code one has R's data structures readily at hand for further computations in C Hence high level numerical programming can be made in C almost as easily as in R but often with a substantial speed gain Dirk is a crucial person in these developments and his book takes the reader from the first fragile steps on to using the full Rcpp machinery A very recommended book Søren Højsgaard Department of Mathematical Sciences Aalborg University Denmark Seamless R and C Integration with Rcpp provides the first comprehensive introduction to Rcpp Rcpp has become the most widely used language extension for R and is deployed by over one hundred different CRAN and BioConductor packages Rcpp permits users to pass scalars vectors matrices list or entire R objects back and forth between R and C with ease This brings the depth of the R analysis framework together with the power speed and efficiency of C Dirk Eddelbuettel has been a contributor to CRAN for over a decade and maintains around twenty packages He is the Debian Ubuntu maintainer for R and other quantitative software edits the CRAN Task Views for Finance and High Performance Computing is a co founder of the annual R Finance conference and an editor of the Journal of Statistical Software He holds a Ph D in Mathematical Economics from EHESS Paris and works in Chicago as a Senior Quantitative Analyst

Linux Dictionary Binh Nguyen, This document is designed to be a resource for those Linux users wishing to seek clarification on Linux UNIX POSIX related terms and jargon At approximately 24000 definitions and two thousand pages it is one of the largest Linux related dictionaries currently

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Applications of Evolutionary Computation Kevin Sim,Paul Kaufmann,2018-03-07 This book constitutes the refereed conference proceedings of the 21st International Conference on the Applications of Evolutionary Computation EvoApplications 2018 held in Parma Italy in April 2018 collocated with the Evo 2018 events EuroGP EvoCOP and EvoMUSART The 59 revised full papers presented were carefully reviewed and selected from 84 submissions EvoApplications 2018 combined research from 14 different domains business analytics and finance EvoBAFIN computational biology EvoBIO communication networks and other parallel and distributed systems EvoCOMNET complex systems EvoCOMPLEX energy related optimization EvoENERGY games and multi agent systems EvoGAMES image analysis signal processing and pattern recognition EvoIASP realworld industrial and commercial environments EvoINDUSTRY knowledge incorporation in evolutionary computation EvoKNOW continuous parameter optimization EvoNUM parallel architectures and distributed infrastructures EvoPAR evolutionary robotics EvoROBOT nature inspired algorithms in software engineering and testing EvoSET and stochastic and dynamic environments EvoSTOC

Integral Methods in Science and Engineering Christian Constanda,Bardo E.J. Bodmann,Haroldo F. de Campos Velho,2013-08-13 Advances in science and technology are driven by the development of rigorous mathematical foundations for the study of both theoretical and experimental models With certain methodological variations this type of study always comes down to the application of analytic or computational integration procedures making such tools indispensable With a wealth of cutting edge research in the field *Integral Methods in Science and Engineering Progress in Numerical and Analytic Techniques* provides a detailed portrait of both the construction of theoretical integral techniques and their application to specific problems in science and engineering The chapters in this volume are based on talks given by well known researchers at the Twelfth International Conference on Integral Methods in Science and Engineering July 23 27 2012 in Porto Alegre Brazil They address a broad range of topics from problems of existence and uniqueness for singular integral equations on domain boundaries to numerical integration via finite and boundary elements conservation laws hybrid methods and other quadrature related

approaches The contributing authors bring their expertise to bear on a number of topical problems that have to date resisted solution thereby offering help and guidance to fellow professionals worldwide Integral Methods in Science and Engineering Progress in Numerical and Analytic Techniques will be a valuable resource for researchers in applied mathematics physics and mechanical and electrical engineering for graduate students in these disciplines and for various other professionals who use integration as an essential tool in their work

Idris Unleashed Robert Johnson, 2024-10-21 Idris Unleashed Type Driven Development and Theorem Proving in Functional Programming is an authoritative guide for programmers who aspire to harness the power of Idris a cutting edge functional programming language known for its robust type system and theorem proving capabilities This book is meticulously crafted to equip both beginners and seasoned developers with the skills necessary to write precise and reliable code using Idris It explores the fundamentals of type driven development delving deep into topics like dependent types advanced type concepts and the practical integration of theorem proving into everyday programming tasks Readers will benefit from hands on exercises illustrative examples and case studies that demonstrate Idris s unique features in real world applications Whether you are building type safe web applications engaging in scientific computing or developing domain specific languages this book provides the knowledge and tools to innovate and excel The future of Idris and its ecosystem is also considered keeping readers informed about emerging trends and directions in the broader landscape of software development This book is an essential resource for anyone interested in advancing their understanding of functional programming through the lens of type driven development and theorem proving

Structures of Large RNA Molecules and Their Complexes, 2015-06-06 This new volume of Methods in Enzymology continues the legacy of this premier serial with quality chapters authored by leaders in the field This volume covers research methods in RNA folding and dynamics RNA protein interactions and large RNPs Continues the legacy of this premier serial with quality chapters on structures of large RNA molecules and their complexes

Multi-indicator Systems and Modelling in Partial Order Rainer Brüggemann, Lars Carlsen, Jochen Wittmann, 2013-11-12 Multi indicator Systems and Modelling in Partial Order contains the newest theoretical concepts as well as new applications or even applications where standard multivariate statistics fail Some of the presentations have their counterpart in the book however there are many contributions which are completely new in the field of applied partial order

Computational Science and Its Applications - ICCSA 2017 Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Giuseppe Borruso, Carmelo M. Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Aduhan, Elena Stankova, Alfredo Cuzzocrea, 2017-07-13 The six volume set LNCS 10404 10409 constitutes the refereed proceedings of the 17th International Conference on Computational Science and Its Applications ICCSA 2017 held in Trieste Italy in July 2017 The 313 full papers and 12 short papers included in the 6 volume proceedings set were carefully reviewed and selected from 1052 submissions Apart from the general tracks ICCSA 2017 included 43 international workshops in various areas of computational sciences ranging from computational science

technologies to specific areas of computational sciences such as computer graphics and virtual reality Furthermore this year ICCSA 2017 hosted the XIV International Workshop On Quantum Reactive Scattering The program also featured 3 keynote speeches and 4 tutorials

Computer Simulation in Physics and Engineering Martin Oliver Steinhauser, 2012-12-06
This work is a needed reference for widely used techniques and methods of computer simulation in physics and other disciplines such as materials science Molecular dynamics computes a molecule's reactions and dynamics based on physical models Monte Carlo uses random numbers to image a system's behaviour when there are different possible outcomes with related probabilities The work conveys both the theoretical foundations as well as applications and tricks of the trade that often are scattered across various papers Thus it will meet a need and fill a gap for every scientist who needs computer simulations for his/her task at hand In addition to being a reference case studies and exercises for use as course reading are included

Accelerating MATLAB Performance Yair M. Altman, 2014-12-11 The MATLAB programming environment is often perceived as a platform suitable for prototyping and modeling but not for serious applications One of the main complaints is that MATLAB is just too slow Accelerating MATLAB Performance aims to correct this perception by describing multiple ways to greatly improve MATLAB program speed Packed with thousands of helpful tips it leaves no stone unturned discussing every aspect of MATLAB Ideal for novices and professionals alike the book describes MATLAB performance in a scale and depth never before published It takes a comprehensive approach to MATLAB performance illustrating numerous ways to attain the desired speedup The book covers MATLAB CPU and memory profiling and discusses various tradeoffs in performance tuning It describes both the application of standard industry techniques in MATLAB as well as methods that are specific to MATLAB such as using different data types or built-in functions The book covers MATLAB vectorization parallelization implicit and explicit optimization memory management chunking and caching It explains MATLAB's memory model and details how it can be leveraged It describes the use of GPU MEX FPGA and other forms of compiled code as well as techniques for speeding up deployed applications It details specific tips for MATLAB GUI graphics and I/O It also reviews a wide variety of utilities libraries and toolboxes that can help to improve performance Sufficient information is provided to allow readers to immediately apply the suggestions to their own MATLAB programs Extensive references are also included to allow those who wish to expand the treatment of a particular topic to do so easily Supported by an active website and numerous code examples the book will help readers rapidly attain significant reductions in development costs and program run times

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