

Alexander K. Hartmann



BIG PRACTICAL GUIDE TO Computer Simulations

Second Edition



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Big Practical Guide To Computer Simulations 2nd Edition

Alexander K. Hartmann



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Big Practical Guide To Computer Simulations (2nd Edition) Alexander K. Hartmann, 2015 **Practical Guide To Computer Simulations (With Cd-rom)** Alexander K Hartmann, 2009-03-30 This book presents all the computational techniques and tools needed to start doing scientific research using computer simulations After working through this book the reader will possess the necessary basic background knowledge from program design programming in C fundamental algorithms and data structures random numbers and debugging all the way to data analysis presentation and publishing In each of these fields no preliminary knowledge is assumed The reader will be equipped to successfully perform complete projects from the first idea until the final publication All techniques are explained using many examples in C these C codes as well as the solutions to exercises are readily available in the accompanying CD ROM The techniques in this book are independent of the fields of research and hence they are suitable for conducting research projects in physics chemistry computer science biology and engineering This also means that no problem dependent algorithms are introduced therefore this book does NOT explain molecular dynamics Monte Carlo finite elements and other special purpose techniques which would be beyond the scope of a general purpose book There has been no similar comprehensive book written so far Currently one needs many different books to learn all the necessary elements With this book however one basically needs only a second book on field specific algorithms in order to be fully equipped to perform computer simulations research *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 *Practical Guide to Computer Simulations* Alexander K. Hartmann, 2009 This book presents all the computational techniques and tools needed to start doing scientific research using computer simulations After working through this book the reader will possess the necessary basic background knowledge from program design programming in C fundamental algorithms and data structures random numbers and debugging all the way to data analysis presentation and publishing In each of these fields no preliminary knowledge is assumed The reader will be equipped to successfully perform complete projects from the first idea until the final publication All techniques are explained using many examples in C these C codes as well as the solutions to exercises are readily available online The techniques in this book are independent of the fields of research and hence they are suitable for conducting research projects in physics chemistry computer science biology and engineering This also means that no problem dependent algorithms are introduced therefore this book does NOT explain molecular dynamics Monte Carlo finite elements and other special purpose techniques which would be beyond the scope of a general purpose book There has been no similar comprehensive book written so far Currently one needs many different books to learn all the necessary elements With this book however one

basically needs only a second book on field specific algorithms in order to be fully equipped to perform computer simulations research

Avalanches in Functional Materials and Geophysics Ekhard K.H. Salje, Avadh Saxena, Antoni Planes, 2016-10-18 This book provides the state of the art of the present understanding of avalanche phenomena in both functional materials and geophysics The main emphasis of the book is analyzing these apparently different problems within the common perspective of out of equilibrium phenomena displaying spatial and temporal complexity that occur in a broad range of scales Many systems when subjected to an external force respond intermittently in the form of avalanches that often span over a wide range of sizes energies and durations This is often related to a class of critical behavior characterized by the absence of characteristic scales Typical examples are magnetization processes plastic deformation and failure occurring in functional materials These phenomena share many similarities with seismicity arising from the earth crust failure due to stresses that originate from plate tectonics

Computer Simulation and Computer Algebra Dietrich Stauffer, Friedrich W Hehl, Nobuyasu Ito, Volker Winkelmann, John G. Zabolitzky, 2012-12-06 Computer Simulation and Computer Algebra Starting from simple examples in classical mechanics these introductory lectures proceed to simulations in statistical physics using FORTRAN and then explain in detail the use of computer algebra by means of Reduce This third edition takes into account the most recent version of Reduce 3.4.1 and updates the description of large scale simulations to subjects such as the 170000 X 170000 Ising model Furthermore an introduction to both vector and parallel computing is given

Atomistic Computer Simulations Veronika Brázdová, David R. Bowler, 2013-04-16 Many books explain the theory of atomistic computer simulations this book teaches you how to run them This introductory how to title enables readers to understand plan run and analyze their own independent atomistic simulations and decide which method to use and which questions to ask in their research project It is written in a clear and precise language focusing on a thorough understanding of the concepts behind the equations and how these are used in the simulations As a result readers will learn how to design the computational model and which parameters of the simulations are essential as well as being able to assess whether the results are correct find and correct errors and extract the relevant information from the results Finally they will know which information needs to be included in their publications This book includes checklists for planning projects analyzing output files and for troubleshooting as well as pseudo keywords and case studies The authors provide an accompanying blog for the book with worked examples and additional material and references <http://www.atomisticsimulations.org>

Resources in Education, 1998

Interactive GPU-based Visualization of Large Dynamic Particle Data Martin Falk, Sebastian Grottel, Michael Krone, Guido Reina, 2022-05-31 Prevalent types of data in scientific visualization are volumetric data vector field data and particle based data Particle data typically originates from measurements and simulations in various fields such as life sciences or physics The particles are often visualized directly that is by simple representants like spheres Interactive rendering facilitates the exploration and visual analysis of the data With increasing data set sizes in terms of particle

numbers interactive high quality visualization is a challenging task This is especially true for dynamic data or abstract representations that are based on the raw particle data This book covers direct particle visualization using simple glyphs as well as abstractions that are application driven such as clustering and aggregation It targets visualization researchers and developers who are interested in visualization techniques for large dynamic particle based data Its explanations focus on GPU accelerated algorithms for high performance rendering and data processing that run in real time on modern desktop hardware Consequently the implementation of said algorithms and the required data structures to make use of the capabilities of modern graphics APIs are discussed in detail Furthermore it covers GPU accelerated methods for the generation of application dependent abstract representations This includes various representations commonly used in application areas such as structural biology systems biology thermodynamics and astrophysics

Developments in Turbomachinery Flow Nader Montazerin, Ghasem Akbari, Mostafa Mahmoodi, 2015-07-02

Developments in Turbomachinery Flow Forward Curved Centrifugal Fans explores the forward curved squirrel cage fan as an excellent instrument for fluid mechanics research in turbomachines The book explores phenomena such as jet wake interaction circulation separation and noise in turbomachines also addressing the characteristics that are specific to this fan and applications in other centrifugal turbomachines Chapters begin with a general introduction that includes research techniques and a survey of older research and then proceed into a detailed description of improvements for different parts of the fan including the inlet the rotor and the volute Final sections include a comprehensive discussion on geometrical modifications that could improve performance without impacting cost Explores how forward curved centrifugal fans have wide industrial application Discusses the strong trade off between fan aerodynamics and construction cost Provides a wide selection of optimums for geometrical configuration Introduces new geometries that can improve performance and reduce noise for the same construction cost Presents fluid phenomena as a potential research field for this fan

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