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A First Course in Computational Physics

Second Edition

Paul L. DeVries • Javier E. Hasbun

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A First Course In Computational Physics

Pavel I. Etingof,Olivier Schiffmann

A First Course In Computational Physics:

A First Course in Computational Physics Paul L. DeVries,Javier E. Hasbun,2010-03-12 Computers and computation are extremely important components of physics and should be integral parts of a physicist s education Furthermore computational physics is reshaping the way calculations are made in all areas of physics Intended for the physics and engineering students who have completed the introductory physics course A First Course in Computational Physics Second Edition covers the different types of computational problems using MATLAB with exercises developed around problems of physical interest Topics such as root finding Newton Cotes integration and ordinary differential equations are included and presented in the context of physics problems A few topics rarely seen at this level such as computerized tomography are also included Within each chapter the student is led from relatively elementary problems and simple numerical approaches through derivations of more complex and sophisticated methods often culminating in the solution to problems of significant difficulty The goal is to demonstrate how numerical methods are used to solve the problems that physicists face Read the review published in Computing in Science Engineering magazine March April 2011 Vol 13 No 2 2011 IEEE Published by the IEEE Computer Society *A First Course in Computational Physics* Paul L. DeVries,1993 **A First Course in Computational Physics and Object-Oriented Programming with C++ Hardback with CD-ROM** David Yevick,2005-03-17 Textbook and reference work on the application of C in science and engineering **A First Course in Computational Physics** Paul L. DeVries,Javier E. Hasbun,2010-03-12 **A First Course in Scientific Computing** Rubin Landau,2011-10-30 This book offers a new approach to introductory scientific computing It aims to make students comfortable using computers to do science to provide them with the computational tools and knowledge they need throughout their college careers and into their professional careers and to show how all the pieces can work together Rubin Landau introduces the requisite mathematics and computer science in the course of realistic problems from energy use to the building of skyscrapers to projectile motion with drag He is attentive to how each discipline uses its own language to describe the same concepts and how computations are concrete instances of the abstract Landau covers the basics of computation numerical analysis and programming from a computational science perspective The first part of the printed book uses the problem solving environment Maple as its context with the same material covered on the accompanying CD as both Maple and Mathematica programs the second part uses the compiled language Java with equivalent materials in Fortran90 on the CD and the final part presents an introduction to LaTeX replete with sample files Providing the essentials of computing with practical examples A First Course in Scientific Computing adheres to the principle that science and engineering students learn computation best while sitting in front of a computer book in hand in trial and error mode Not only is it an invaluable learning text and an essential reference for students of mathematics engineering physics and other sciences but it is also a consummate model for future textbooks in computational science and engineering courses A broad

spectrum of computing tools and examples that can be used throughout an academic career Practical computing aimed at solving realistic problems Both symbolic and numerical computations A multidisciplinary approach science math computer science Maple and Java in the book itself Mathematica Fortran90 Maple and Java on the accompanying CD in an interactive workbook format **Computational Modeling and Visualization of Physical Systems with Python** Jay Wang,2016-01-11 Computational Modeling by Jay Wang introduces computational modeling and visualization of physical systems that are commonly found in physics and related areas The authors begin with a framework that integrates model building algorithm development and data visualization for problem solving via scientific computing Through carefully selected problems methods and projects the reader is guided to learning and discovery by actively doing rather than just knowing physics Computational Physics Rubin H. Landau,Manuel J. Páez,Cristian C. Bordeianu,2015-07-10 The use of computation and simulation has become an essential part of the scientific process Being able to transform a theory into an algorithm requires significant theoretical insight detailed physical and mathematical understanding and a working level of competency in programming This upper division text provides an unusually broad survey of the topics of modern computational physics from a multidisciplinary computational science point of view Its philosophy is rooted in learning by doing assisted by many model programs with new scientific materials as well as with the Python programming language Python has become very popular particularly for physics education and large scientific projects It is probably the easiest programming language to learn for beginners yet is also used for mainstream scientific computing and has packages for excellent graphics and even symbolic manipulations The text is designed for an upper level undergraduate or beginning graduate course and provides the reader with the essential knowledge to understand computational tools and mathematical methods well enough to be successful As part of the teaching of using computers to solve scientific problems the reader is encouraged to work through a sample problem stated at the beginning of each chapter or unit which involves studying the text writing debugging and running programs visualizing the results and the expressing in words what has been done and what can be concluded Then there are exercises and problems at the end of each chapter for the reader to work on their own with model programs given for that purpose **American Journal of Physics** ,2005 Book Review Index ,2006 Every 3rd issue is a quarterly cumulation **Math Refresher for Scientists and Engineers** John R. Fanchi,2000-05-25 All of the basic math that scientists and engineers need now expanded and revised Whether you need to understand advances in modern technology prepare for professional exams or simply brush up on skills acquired long ago John Fanchi s quick reference guide to applied math is for you He has updated his 1997 book to include probability and statistics in new chapters with exercises and solutions Fanchi explains all topics clearly and methodically from the ground up He begins with straightforward concepts in college math and gradually progresses to more advanced topics using practical applications throughout to demonstrate relationships between different areas The wealth of numerical methods and illustrative examples

further enhances the utility of this truly indispensable book Math Refresher for Scientists and Engineers Second Edition reviews Algebra Geometry analytic geometry trigonometry and hyperbolic functions Vectors matrices and linear algebra Differential calculus integral calculus and special integrals Partial derivatives Ordinary differential equations and ODE solution techniques Partial differential equations Probability and statistics **Choice** ,2008 A Survey of Computational Physics Rubin H. Landau,José Páez,Manuel José Páez Mejía,Cristian C. Bordeianu,2008-07-21 This book presents a broad survey of many of the topics that constitute modern computational science Its view is as a multidisciplinary subject combining aspects of physics applied mathematics and computer science **Proceedings of the IEEE Workshop on Mathematical Methods in Biomedical Image Analysis** ,2000 **A First Course in Monte Carlo** George S. Fishman,2006 A FIRST COURSE IN MONTE CARLO shows you how to design perform and analyze the results of MC experiments based on independent replications Markov chain MC and MC optimization The text emphasizes the variance reducing techniques of importance sampling stratified sampling Rao Blackwellization control variates antithetic variates and quasi random numbers For solving optimization problems it describes several MC techniques including simulated annealing simulated tempering swapping stochastic tunneling and genetic algorithms Examples from many areas show how these techniques perform in practice Hands on exercises allow you to experience challenges encountered when solving real problems An answer key to selected problems is included *Proceedings : IEEE Workshop on Mathematical Methods in Biomedical Image Analysis* ,2000 Twenty nine contributions are organized into segments addressing segmentation deformable models registration flow and motion and shape Topics addressed include watersheds on the cortical surface for automated sulcal segmentation needle placement under X ray fluoroscopy using perspective invari **Computing Curricula 2001** ACM/IEEE-CS Joint Curriculum Task Force,2002 This volume examines computing curricula for computer science **Computational Methods for Multi-Domain Geophysical Flows** Kuo-Cheng Kao,2006 **Quantum Evolution** James E. Bayfield,1999-09-15 A unique introduction to the concepts of quantum mechanics Quantum Evolution addresses the present status of time dependent quantum mechanics for few body systems with electromagnetic interactions It bridges between the quantum mechanics of stationary quantum systems and a number of recent advanced theoretical treatises on various aspects of quantum mechanics The focus is on strongly quantum and semi classical systems including the quantum manifestations of orderly and chaotic nonlinear classical dynamics Lectures on Quantum Groups Pavel I. Etingof,Olivier Schiffmann,1998 Based on lectures given in the spring of 1997 at Harvard University this book is an introduction to the theory of quantum groups and its development between 1982 and 1997 Topics covered include relevant quasiclassical objects bialgebras Hopf algebras and lie associators **ICONO 2001** Konstantin N. Drabovich,2002 This volume examines novel trends in nonlinear laser spectroscopy and optical diagnostics and lasers in chemistry biophysics and biomedicine

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