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# A First Course in Computational Physics

Second Edition



Paul L. DeVries • Javier E. Hasbun

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# First Course In Computational Physics

**Rubin H. Landau, Manuel J.  
Páez, Cristian C. Bordeianu**



## **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 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, 1993 **A First Course in Computational Physics** Paul L. DeVries, Javier Hasbun, 2011-01-28 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 Scientific Computing** Rubin Landau, Robyn Wangberg, 2005-05 Mathematica Fortran90 Maple and Java on the accompanying CD ROM in an interactive workbook format **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 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

**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.

**A Physicist's Guide to Mathematica** Patrick T. Tam, 2011-08-09. For the engineering and scientific professional. A Physicist's Guide to Mathematica Second Edition provides an updated reference guide based on the 2007 new 6.0 release, providing an organized and integrated desk reference with step-by-step instructions for the most commonly used features of the software as it applies to research in physics. For professors teaching physics and other science courses using the Mathematica software, A Physicist's Guide to Mathematica Second Edition is the only fully compatible new software release. Mathematica text that engages students by providing complete topic coverage, new applications, exercises, and examples that enable the user to solve a wide range of physics problems. Does not require prior knowledge of Mathematica or computer programming. Can be used as either a primary or supplemental text for upper division physics majors. Provides over 450 end-of-section exercises and end-of-chapter problems. Serves as a reference suitable for chemists, physical scientists, and engineers. Compatible with Mathematica Version 6, a recent major release.

*A Survey of Computational Physics* Rubin Landau, José Páez, Cristian C. Bordeianu, 2011-10-30. Computational physics is a rapidly growing subfield of computational science in large part because computers can solve previously intractable problems or simulate natural processes that do not have analytic solutions. The next step beyond Landau's First Course in Scientific Computing and a follow-up to Landau and Páez's Computational Physics, this text presents a broad survey of key topics in computational physics for advanced undergraduates and beginning graduate students, including new discussions of visualization tools, wavelet analysis, molecular dynamics, and computational fluid dynamics. By treating science, applied mathematics, and computer science together, the book reveals how this knowledge base can be applied to a wider range of real-world problems than computational physics texts normally address. Designed for a one- or two-semester course, A Survey of Computational Physics will also interest anyone who wants a reference on or practical experience in the basics of computational physics. Accessible to advanced undergraduates. Real-world problem solving approach. Java codes and applets integrated with text. Companion Web site includes videos of lectures.

**What Mathematics from Africa?** Giandomenico Sica, 2005.

**Computational Physics** Devang Patil, 2025-02-20. Computational Physics: Basic Concepts serves as an indispensable guide for students, researchers, and enthusiasts exploring the intersection of physics and computational methods. This book offers a comprehensive exploration of the fundamental principles of computational physics, providing a solid foundation to tackle complex problems in various branches of physics. The book begins by elucidating the foundational principles and theoretical underpinnings essential for effective computational simulations. It covers a variety of numerical techniques, including finite difference methods and Monte Carlo simulations, with

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**Element Methods** Steven L. Crouch, Sofia G. Mogilevskaya, 2024-07-22 This textbook delves into the theory and practical application of boundary integral equation techniques focusing on their numerical solution for boundary value problems within potential theory and linear elasticity Drawing parallels between single and double layer potentials in potential theory and their counterparts in elasticity the book introduces various numerical procedures namely boundary element methods where unknown quantities reside on the boundaries of the region of interest Through the approximation of boundary value problems into systems of algebraic equations solvable by standard numerical methods the text elucidates both indirect and direct approaches Indirect methods involve single or double layer potentials separately while direct methods combine these potentials using Green's or Somigliana's formulas The two approaches give comparable results for general boundary value problems Tailored for beginning graduate students this self-contained textbook offers detailed analytical and numerical derivations for isotropic and anisotropic materials prioritizing simplicity in presentation while progressively advancing towards more intricate mathematical concepts particularly focusing on two dimensional problems within potential theory and linear elasticity *A First Course on Orthogonal Polynomials* Kenier Castillo, José Carlos Petronilho, 2024-11-19 A First

Course on Orthogonal Polynomials Classical Orthogonal Polynomials and Related Topics provides an introduction to orthogonal polynomials and special functions aimed at graduate students studying these topics for the first time A large part of its content is essentially inspired by the works of Pascal Maroni on the so called algebraic theory of orthogonal polynomials which distinguishes it from other contributions in the field Features Suitable for a graduate course in orthogonal polynomials Can be used for a short course on the algebraic theory of orthogonal polynomials and its applicability to the study of the old classical orthogonal polynomials Includes numerous exercises for each topic Real and complex analysis are the only prerequisites Conservative Finite-Difference Methods on General Grids Mikhail Shashkov, 2018-02-06 This new book deals with the construction of finite difference FD algorithms for three main types of equations elliptic equations heat equations and gas dynamic equations in Lagrangian form These methods can be applied to domains of arbitrary shapes The

construction of FD algorithms for all types of equations is done on the basis of the support operators method SOM This method constructs the FD analogs of main invariant differential operators of first order such as the divergence the gradient and the curl This book is unique because it is the first book not in Russian to present the support operators ideas

*Conservative Finite Difference Methods on General Grids* is completely self contained presenting all the background material necessary for understanding The book provides the tools needed by scientists and engineers to solve a wide range of practical engineering problems An abundance of tables and graphs support and explain methods The book details all algorithms needed for implementation A 3 5 IBM compatible computer diskette with the main algorithms in FORTRAN accompanies text for easy use

*Computational Materials Engineering* Koenraad George Frans Janssens, Dierk Raabe, Ernest Kozeschnik, Mark A Miodownik, Britta Nestler, 2010-07-26 Computational Materials Engineering is an advanced introduction to the computer aided modeling of essential material properties and behavior including the physical thermal and chemical parameters as well as the mathematical tools used to perform simulations Its emphasis will be on crystalline materials which includes all metals The basis of Computational Materials Engineering allows scientists and engineers to create virtual simulations of material behavior and properties to better understand how a particular material works and performs and then use that knowledge to design improvements for particular material applications The text displays knowledge of software designers materials scientists and engineers and those involved in materials applications like mechanical engineers civil engineers electrical engineers and chemical engineers Readers from students to practicing engineers to materials research scientists will find in this book a single source of the major elements that make up contemporary computer modeling of materials characteristics and behavior The reader will gain an understanding of the underlying statistical and analytical tools that are the basis for modeling complex material interactions including an understanding of computational thermodynamics and molecular kinetics as well as various modeling systems Finally the book will offer the reader a variety of algorithms to use in solving typical modeling problems so that the theory presented herein can be put to real world use Balanced coverage of fundamentals of materials modeling as well as more advanced aspects of modeling such as modeling at all scales from the atomic to the molecular to the macro material Concise yet rigorous mathematical coverage of such analytical tools as the Potts type Monte Carlo method cellular automata phase field dislocation dynamics and Finite Element Analysis in statistical and analytical modeling

*Math Refresher for Scientists and Engineers* John R. Fanchi, 2006-08-28 Expanded coverage of essential math including integral equations calculus of variations tensor analysis and special integrals Math Refresher for Scientists and Engineers Third Edition is specifically designed as a self study guide to help busy professionals and students in science and engineering quickly refresh and improve the math skills needed to perform their jobs and advance their careers The book focuses on practical applications and exercises that readers are likely to face in their professional environments All the basic math skills needed to manage contemporary

technology problems are addressed and presented in a clear lucid style that readers familiar with previous editions have come to appreciate and value The book begins with basic concepts in college algebra and trigonometry and then moves on to explore more advanced concepts in calculus linear algebra including matrices differential equations probability and statistics This Third Edition has been greatly expanded to reflect the needs of today's professionals New material includes A chapter on integral equations A chapter on calculus of variations A chapter on tensor analysis A section on time series A section on partial fractions Many new exercises and solutions Collectively the chapters teach most of the basic math skills needed by scientists and engineers The wide range of topics covered in one title is unique All chapters provide a review of important principles and methods Examples exercises and applications are used liberally throughout to engage the readers and assist them in applying their new math skills to actual problems Solutions to exercises are provided in an appendix Whether to brush up on professional skills or prepare for exams readers will find this self study guide enables them to quickly master the math they need It can additionally be used as a textbook for advanced level undergraduates in physics and engineering

Applied Numerical Methods for Partial Differential Equations Carl L. Gardner, 2024-10-21 The aim of this book is to quickly elevate students to a proficiency level where they can solve linear and nonlinear partial differential equations using state of the art numerical methods It covers numerous topics typically absent in introductory texts on ODEs and PDEs including Computing solutions to chaotic dynamical systems with TRBDF2 Simulating the nonlinear diffusion equation with TRBDF2 Applying Newton's method and GMRES to the nonlinear Laplace equation Analyzing gas dynamics with WENO3 1D Riemann problems and 2D supersonic jets Modeling the drift diffusion equations with TRBDF2 and PCG Solving the classical hydrodynamic model electro gas dynamics with WENO3 and TRBDF2 The book features 34 original MATLAB programs illustrating each numerical method and includes 93 problems that confirm results discussed in the text and explore new directions Additionally it suggests eight semester long projects This comprehensive text can serve as the basis for a one semester graduate course on the numerical solution of partial differential equations or with some advanced material omitted for a one semester junior senior or graduate course on the numerical solution of ordinary and partial differential equations The topics and programs will be of interest to applied mathematicians engineers physicists biologists chemists and more

*The Hybrid Multiscale Simulation Technology* Alexander S. Lipatov, 2013-04-17 This book addresses hybrid simulation of plasmas it is aimed at developing insight into the essence of plasma behavior Major current applications are to astrophysical and space plasmas Some applications are connected with active experiments in space However hybrid simulations are also being used to gain an understanding of basic plasma phenomena such as particle acceleration by shocks magnetic field reconnect ion in neutral current sheets generation of waves by beams mass loading of the supersonic flow by heavy pickup ions and the dynamics of tangential discontinuities Such simulations may be very important not only for the study of the astrophysical plasmas but also for the study of the magnetically and inertially contained fusion plasmas and other laboratory

plasma devices Plasma is the fourth state of matter consisting of electrons ions and 4 neutral atoms usually at temperatures above 10 K The stars and sun are plasmas the local interstellar medium the solar wind magnetospheres and ionospheres of planets and comets Van Allen belts etc are all plasmas Indeed much of the known matter in the universe is plasma

**Nonlocal Modeling, Analysis, and Computation** Qiang Du, 2019-03-20 Studies of complexity singularity and anomaly using nonlocal continuum models are steadily gaining popularity This monograph provides an introduction to basic analytical computational and modeling issues and to some of the latest developments in these areas Nonlocal Modeling Analysis and Computation includes motivational examples of nonlocal models basic building blocks of nonlocal vector calculus elements of theory for well posedness and nonlocal spaces connections to and coupling with local models convergence and compatibility of numerical approximations and various applications such as nonlocal dynamics of anomalous diffusion and nonlocal peridynamic models of elasticity and fracture mechanics A particular focus is on nonlocal systems with a finite range of interaction to illustrate their connection to local partial differential equations and fractional PDEs These models are designed to represent nonlocal interactions explicitly and to remain valid for complex systems involving possible singular solutions and they have the potential to be alternatives for as well as bridges to existing models The author discusses ongoing studies of nonlocal models to encourage the discovery of new mathematical theory for nonlocal continuum models and offer new perspectives on traditional models analytical techniques and algorithms

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