



UNIVERSITY of NIŠ
FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE

NUMERICAL METHODS In Computational Engineering

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A First Course in Linear Optimization Amir Beck, Nili Guttman-Beck, 2025-05-05 This self contained textbook provides the foundations of linear optimization covering topics in both continuous and discrete linear optimization It gradually builds the connection between theory algorithms and applications so that readers gain a theoretical and algorithmic foundation familiarity with a variety of applications and the ability to apply the theory and algorithms to actual problems To deepen the reader s understanding the authors provide many applications from diverse areas of applied sciences such as resource allocation line fitting graph coloring the traveling salesman problem game theory and network flows more than 180 exercises most of them with partial answers and about 70 with complete solutions and a continuous illustration of the theory through examples and exercises A First Course in Linear Optimization is intended to be read cover to cover and requires only a first course in linear algebra as a prerequisite Its 13 chapters can be used as lecture notes for a first course in linear optimization This book is for a first undergraduate course in linear optimization such as linear programming linear optimization and operations research It is appropriate for students in operations research mathematics economics and industrial engineering as well as those studying computer science and engineering disciplines *Finite Difference Computing with PDEs* Hans Petter Langtangen, Svein Linge, 2017-06-21 This book is open access under a CC BY 4 0 license This easy to read book introduces the basics of solving partial differential equations by means of finite difference methods Unlike many of the traditional academic works on the topic this book was written for practitioners Accordingly it especially addresses the construction of finite difference schemes formulation and implementation of algorithms verification of implementations analyses of physical behavior as implied by the numerical solutions and how to apply the methods and software to solve problems in the fields of physics and biology

Programming for Computations - MATLAB/Octave Svein Linge, Hans Petter Langtangen, 2016-08-01 This book presents computer programming as a key method for solving mathematical problems There are two versions of the book one for MATLAB and one for Python The book was inspired by the Springer book TCSE 6 A Primer on Scientific Programming with Python by Langtangen but the style is more accessible and concise in keeping with the needs of engineering students The book outlines the shortest possible path from no previous experience with programming to a set of skills that allows the students to write simple programs for solving common mathematical problems with numerical methods in engineering and science courses The emphasis is on generic algorithms clean design of programs use of functions and automatic tests for verification [Programming for Computations - Python](#) Svein Linge, Hans Petter Langtangen, 2016-07-25 This book presents computer programming as a key method for solving mathematical problems There are two versions of the book one for

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Theoretical Computer Science Kun He, Cheng Zhong, Zhiping Cai, Yitong Yin, 2021-04-08 This book constitutes the thoroughly refereed proceedings of the 38th National Conference of Theoretical Computer Science NCTCS 2020 held in Nanning China in November 2020 The 13 full papers presented were carefully reviewed and selected from 28 submissions They present recent research in the areas of algorithms and complexity matrix computation deep learning network communication and security

Numerical Methods for Computer Science, Engineering, and Mathematics John H. Mathews, 1987

ACM Curricula Recommendations for Computer Science Association for Computing Machinery, 1983

A Gentle Introduction to Scientific Computing Dan Stanescu, Long Lee, 2022-05-01 Scientific Computation has established itself as a stand alone area of knowledge at the borderline between computer science and applied mathematics. Nonetheless its interdisciplinary character cannot be denied its methodologies are increasingly used in a wide variety of branches of science and engineering. A Gentle Introduction to Scientific Computing intends to serve a very broad audience of college students across a variety of disciplines. It aims to expose its readers to some of the basic tools and techniques used in computational science with a view to helping them understand what happens behind the scenes when simple tools such as solving equations, plotting and interpolation are used. To make the book as practical as possible the authors explore their subject both from a theoretical mathematical perspective and from an implementation driven programming perspective. Features: Middle ground approach between theory and implementation. Suitable reading for a broad range of students in STEM disciplines. Could be used as the primary text for a first course in scientific computing. Introduces mathematics majors without any prior computer science exposure to numerical methods. All mathematical knowledge needed beyond Calculus together with the most widely used Calculus notation and concepts is introduced in the text to make it self contained. The erratum document for A Gentle Introduction to Scientific Computing can be accessed here [Proceedings of the Computer Science and Engineering Curricula Workshop](#) IEEE Computer Society, 1977

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

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