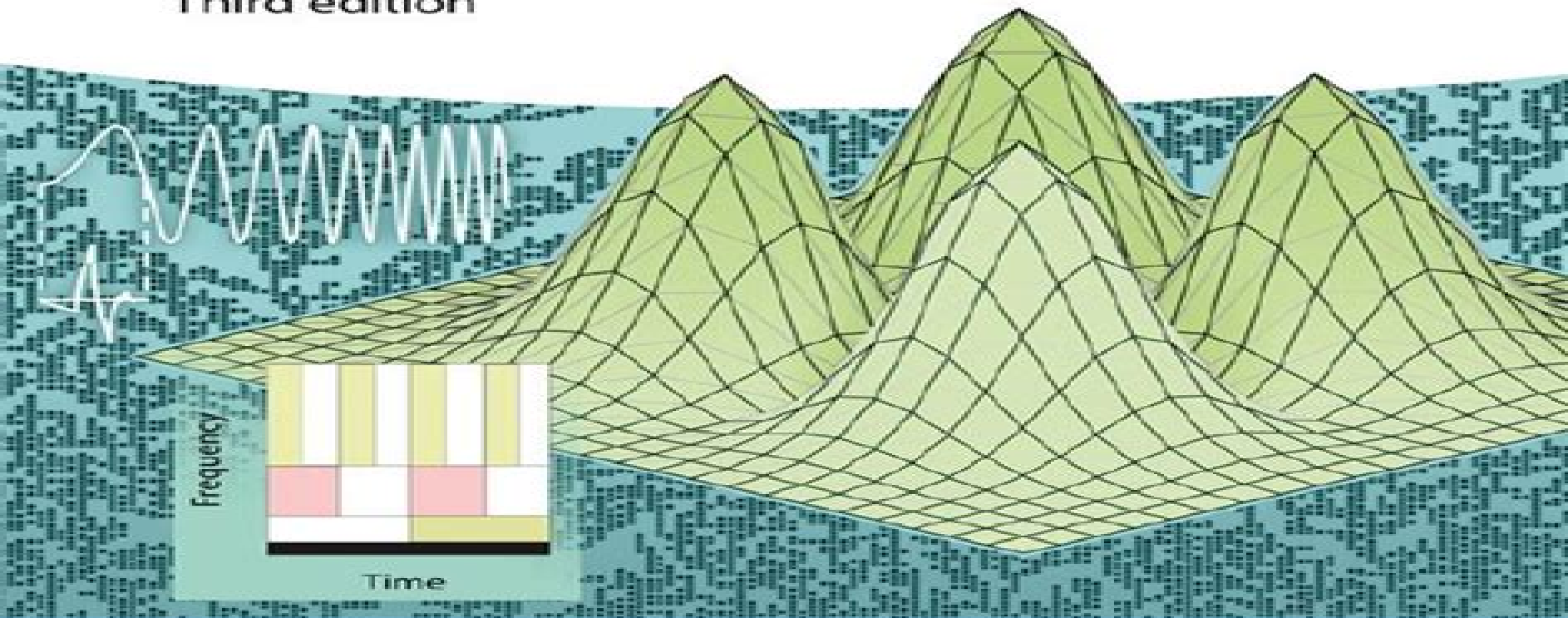


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Solving PDEs in Python Hans Petter Langtangen, Anders Logg, 2017-03-21 This book offers a concise and gentle introduction to finite element programming in Python based on the popular FEniCS software library Using a series of examples including the Poisson equation the equations of linear elasticity the incompressible Navier Stokes equations and

systems of nonlinear advection diffusion reaction equations it guides readers through the essential steps to quickly solving a PDE in FEniCS such as how to define a finite variational problem how to set boundary conditions how to solve linear and nonlinear systems and how to visualize solutions and structure finite element Python programs This book is open access under a CC BY license **Introduction to Modeling and Simulation with MATLAB® and Python** Steven I.

Gordon,Brian Guilfoos,2017-07-12 Introduction to Modeling and Simulation with MATLAB and Python is intended for students and professionals in science social science and engineering that wish to learn the principles of computer modeling as well as basic programming skills The book content focuses on meeting a set of basic modeling and simulation competencies that were developed as part of several National Science Foundation grants Even though computer science students are much more expert programmers they are not often given the opportunity to see how those skills are being applied to solve complex science and engineering problems and may also not be aware of the libraries used by scientists to create those models The book interleaves chapters on modeling concepts and related exercises with programming concepts and exercises The authors start with an introduction to modeling and its importance to current practices in the sciences and engineering They introduce each of the programming environments and the syntax used to represent variables and compute mathematical equations and functions As students gain more programming expertise the authors return to modeling concepts providing starting code for a variety of exercises where students add additional code to solve the problem and provide an analysis of the outcomes In this way the book builds both modeling and programming expertise with a just in time approach so that by the end of the book students can take on relatively simple modeling example on their own Each chapter is supplemented with references to additional reading tutorials and exercises that guide students to additional help and allows them to practice both their programming and analytical modeling skills In addition each of the programming related chapters is divided into two parts one for MATLAB and one for Python In these chapters the authors also refer to additional online tutorials that students can use if they are having difficulty with any of the topics The book culminates with a set of final project exercise suggestions that incorporate both the modeling and programming skills provided in the rest of the volume Those projects could be undertaken by individuals or small groups of students The companion website at <http://www.intromodeling.com> provides updates to instructions when there are substantial changes in software versions as well as electronic copies of exercises and the related code The website also offers a space where people can suggest additional projects they are willing to share as well as comments on the existing projects and exercises throughout the book Solutions and lecture notes will also be available for qualifying instructors [A Student's Guide to Python for Physical Modeling](#) Jesse M. Kinder,Philip Nelson,2015-09-22 Python is a computer programming language that is rapidly gaining popularity throughout the sciences A Student s Guide to Python for Physical Modeling aims to help you the student teach yourself enough of the Python programming language to get started with physical modeling You will learn how to install an open

source Python programming environment and use it to accomplish many common scientific computing tasks importing exporting and visualizing data numerical analysis and simulation No prior programming experience is assumed This tutorial focuses on fundamentals and introduces a wide range of useful techniques including Basic Python programming and scripting Numerical arrays Two and three dimensional graphics Monte Carlo simulations Numerical methods including solving ordinary differential equations Image processing Animation Numerous code samples and exercises with solutions illustrate new ideas as they are introduced Web based resources also accompany this guide and include code samples data sets and more

Numerical Exploration of Fourier Transform and Fourier Series Sujaul Chowdhury,Abdullah Al Sakib,2023-08-01 This book presents practical demonstrations of numerically calculating or obtaining Fourier Transform In particular the authors demonstrate how to obtain frequencies that are present in numerical data and utilizes Mathematica to illustrate the calculations This book also contains numerical solution of differential equation of driven damped oscillator using 4th order Runge Kutta method Numerical solutions are compared with analytical solutions and the behaviors of mechanical system are also depicted by plotting velocity versus displacement rather than displaying displacement as a function of time This book is useful to physical science and engineering professionals who often need to obtain frequencies present in numerical data using the discrete Fourier transform This book Aids readers to numerically calculate or obtain frequencies that are present in numerical data Explores the use of the discrete Fourier transform and demonstrates practical numerical calculation Utilizes 4th order Runge Kutta method and Mathematica for the numerical solution of differential equation

Fourier Theory in Optics and Optical Information Processing Toyohiko Yatagai,2022-05-26 Fourier analysis is one of the most important concepts when you apply physical ideas to engineering issues This book provides a comprehensive understanding of Fourier transform and spectral analysis in optics image processing and signal processing Written by a world renowned author this book looks to unify the readers understanding of principles of optics information processing and measurement This book describes optical imaging systems through a linear system theory The book also provides an easy understanding of Fourier transform and system theory in optics It also provides background of optical measurement and signal processing Finally the author also provides a systematic approach to learning many signal processing techniques in optics The book is intended for researchers industry professionals and graduate level students in optics and information processing

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My Book of Python Computing Abhijit Kar Gupta,2021-04-16 This book offers a lucid introduction to Python with examples and graphical illustrations Python computing becomes magically simplified with external modules and packages Some useful packages like NumPy Matplotlib Pandas SymPy are introduced in great detail Example codes are included as applications This book may be beneficial to students and teachers and to anyone who is enthusiastic about Python Computing

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