

Texts in Computational Science
and Engineering

3

```
def solve(self):
    self.y0 = [self.p['y0'], 0.0]
    from py4cs.numpytools import sequence
    self.t = sequence(0, self.p['tmax'],
                      self.p['dt'])

    from scipy.integrate import odeint
    self.yvec = odeint(self.f, self.y0, self.t)

    self.y = self.yvec[:,0] # y(t)
    f = open('data.dat', 'w')
    for i, t in zip(self.y, self.t):
        f.write("%g %g\n" % (t, y))
```

$$\rho \frac{\partial^2 u}{\partial t^2} + \beta \frac{\partial u}{\partial t} - \nabla_{\mathbf{x}} \cdot (\lambda \nabla u) + f$$

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Python Scripting for Computational Science

Second Edition

 Springer

Python Scripting For Computational Science Texts In Computational Science And Engineering

Barry Koren, Kees Vuik



Python Scripting For Computational Science Texts In Computational Science And Engineering:

Python Scripting for Computational Science Hans Petter Langtangen, 2007-12-05 Numerous readers of the second edition have notified me about misprints and possible improvements of the text and the associated computer codes. The resulting modifications have been incorporated in this new edition and its accompanying software. The major change between the second and third editions however is caused by the new implementation of Numerical Python now called numpy. The new numpy package encourages a slightly different syntax compared to the old Numeric implementation which was used in the previous editions. Since Numerical Python functionality appears in a lot of places in the book there are hence a huge number of updates to the new suggested numpy syntax especially in Chapters 4, 9 and 10. The second edition was based on Python version 2.3 while the third edition contains updates for version 2.5. Recent Python features such as generator expressions, Chapter 8, 9, 4 Ctypes for interfacing shared libraries in C, Chapter 5, 2, 2 the with statement, Chapter 3, 1, 4 and the subprocess module for running external processes, Chapter 3, 1, 3 have been exemplified to make the reader aware of new tools. Chapter 4, 4 is new and gives a taste of symbolic mathematics in Python.

Python Scripting for Computational Science Hans Petter Langtangen, 2013-03-14 The primary purpose of this book is to help scientists and engineers working intensively with computers to become more productive, have more fun and increase the reliability of their investigations. Scripting in the Python programming language can be a key tool for reaching these goals. The term scripting means different things to different people. By scripting I mean developing programs of an administering nature mostly to organize your work using languages where the abstraction level is higher and programming is more convenient than in Fortran, C, C++ or Java. Perl, Python, Ruby, Scheme and Tcl are examples of languages supporting such high level programming or scripting. To some extent Matlab and similar scientific computing environments also fall into this category but these environments are mainly used for computing and visualization with built-in tools while scripting aims at gluing a range of different tools for computing, visualization, data analysis, file directory management, user interfaces and Internet communication. So although Matlab is perhaps the scripting language of choice in computational science today my use of the term scripting goes beyond typical Matlab scripts. Python stands out as the language of choice for scripting in computational science because of its very clean syntax, rich modularization features, good support for numerical computing and rapidly growing popularity. What Scripting is About

Scientific Computing with Python 3 Claus Fuhrer, Jan Erik Solem, Olivier Verdier, 2016-12-23 An example rich comprehensive guide for all of your Python computational needs. About This Book Your ultimate resource for getting up and running with Python numerical computations. Explore numerical computing and mathematical libraries using Python 3.x code with SciPy and NumPy modules. A hands-on guide to implementing mathematics with Python with complete coverage of all the key concepts. Who This Book Is For This book is for anyone who wants to perform numerical and mathematical computations in Python. It is especially useful for developers, students and anyone who wants to use Python for computation.

Readers are expected to possess basic a knowledge of scientific computing and mathematics but no prior experience with Python is needed

What You Will Learn

- The principal syntactical elements of Python
- The most important and basic types in Python
- The essential building blocks of computational mathematics linear algebra and related Python objects
- Plot in Python using matplotlib to create high quality figures and graphics to draw and visualize your results
- Define and use functions and learn to treat them as objects
- How and when to correctly apply object oriented programming for scientific computing in Python
- Handle exceptions which are an important part of writing reliable and usable code
- Two aspects of testing for scientific programming

Manual and Automatic In Detail

Python can be used for more than just general purpose programming It is a free open source language and environment that has tremendous potential for use within the domain of scientific computing This book presents Python in tight connection with mathematical applications and demonstrates how to use various concepts in Python for computing purposes including examples with the latest version of Python 3 Python is an effective tool to use when coupling scientific computing and mathematics and this book will teach you how to use it for linear algebra arrays plotting iterating functions polynomials and much more

Style and approach

This book takes a concept based approach to the language rather than a systematic introduction It is a complete Python tutorial and introduces computing principles using practical examples to and showing you how to correctly implement them in Python You ll learn to focus on high level design as well as the intricate details of Python syntax Rather than providing canned problems to be solved the exercises have been designed to inspire you to think about your own code and give you real world insight

Scientific Computing with Python

Claus Fuhrer, Jan Erik Solem, Olivier Verdier, 2021-07-30

Leverage this example packed comprehensive guide for all your Python computational needs

Key Features

- Learn the first steps within Python to highly specialized concepts
- Explore examples and code snippets taken from typical programming situations within scientific computing
- Delve into essential computer science concepts like iterating object oriented programming testing and MPI presented in strong connection to applications within scientific computing

Book Description

Python has tremendous potential within the scientific computing domain This updated edition of Scientific Computing with Python features new chapters on graphical user interfaces efficient data processing and parallel computing to help you perform mathematical and scientific computing efficiently using Python This book will help you to explore new Python syntax features and create different models using scientific computing principles The book presents Python alongside mathematical applications and demonstrates how to apply Python concepts in computing with the help of examples involving Python 3 8 You ll use pandas for basic data analysis to understand the modern needs of scientific computing and cover data module improvements and built in features You ll also explore numerical computation modules such as NumPy and SciPy which enable fast access to highly efficient numerical algorithms By learning to use the plotting module Matplotlib you will be able to represent your computational results in talks and publications A special chapter is devoted to SymPy a tool for bridging symbolic and numerical

computations By the end of this Python book you ll have gained a solid understanding of task automation and how to implement and test mathematical algorithms within the realm of scientific computing What you will learn Understand the building blocks of computational mathematics linear algebra and related Python objects Use Matplotlib to create high quality figures and graphics to draw and visualize results Apply object oriented programming OOP to scientific computing in Python Discover how to use pandas to enter the world of data processing Handle exceptions for writing reliable and usable code Cover manual and automatic aspects of testing for scientific programming Get to grips with parallel computing to increase computation speed Who this book is for This book is for students with a mathematical background university teachers designing modern courses in programming data scientists researchers developers and anyone who wants to perform scientific computation in Python

Advanced Computational Methods in Science and Engineering Barry Koren, Kees Vuik, 2010-04-29 The aim of the present book is to show in a broad and yet deep way the state of the art in computational science and engineering Examples of topics addressed are fast and accurate numerical algorithms model order reduction grid computing immersed boundary methods and specific computational methods for simulating a wide variety of challenging problems problems such as fluid structure interaction turbulent flames bone fracture healing micro electro mechanical systems failure of composite materials storm surges particulate flows and so on The main benefit offered to readers of the book is a well balanced up to date overview over the field of computational science and engineering through in depth articles by specialists from the separate disciplines

A Primer on Scientific Programming with Python Hans Petter Langtangen, 2016-07-28 The book serves as a first introduction to computer programming of scientific applications using the high level Python language The exposition is example and problem oriented where the applications are taken from mathematics numerical calculus statistics physics biology and finance The book teaches Matlab style and procedural programming as well as object oriented programming High school mathematics is a required background and it is advantageous to study classical and numerical one variable calculus in parallel with reading this book Besides learning how to program computers the reader will also learn how to solve mathematical problems arising in various branches of science and engineering with the aid of numerical methods and programming By blending programming mathematics and scientific applications the book lays a solid foundation for practicing computational science From the reviews Langtangen does an excellent job of introducing programming as a set of skills in problem solving He guides the reader into thinking properly about producing program logic and data structures for modeling real world problems using objects and functions and embracing the object oriented paradigm Summing Up Highly recommended F H Wild III Choice Vol 47 8 April 2010 Those of us who have learned scientific programming in Python on the streets could be a little jealous of students who have the opportunity to take a course out of Langtangen s Primer John D Cook The Mathematical Association of America September 2011 This book goes through Python in particular and programming in general via tasks that scientists will likely perform It

contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science Alex Small IEEE CiSE Vol 14 2 March April 2012 This fourth edition is a wonderful inclusive textbook that covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Python Joan Horvath Computing Reviews March 2015

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

Meshfree Methods for Partial Differential Equations VI Michael Griebel, Marc Alexander Schweitzer, 2012-12-16 Meshfree methods are a modern alternative to classical mesh based discretization techniques such as finite differences or finite element methods Especially in a time dependent setting or in the treatment of problems with strongly singular solutions their independence of a mesh makes these methods highly attractive This volume collects selected papers presented at the Sixth International Workshop on Meshfree Methods held in Bonn Germany in October 2011 They address various aspects of this very active research field and cover topics from applied mathematics physics and engineering

Spectral and High Order Methods for Partial Differential Equations - ICOSAHOM 2012 Mejdi Azaïez, Henda El Fekih, Jan S. Hesthaven, 2013-11-19 The book contains a selection of high quality papers chosen among the best presentations during the International Conference on Spectral and High Order Methods 2012 and provides an overview of the depth and breath of the activities within this important research area The carefully reviewed selection of the papers will provide the reader with a snapshot of state of the art and help initiate new research directions through the extensive bibliography

Programming for Computations - Python Svein Linge, Hans Petter Langtangen, 2019-10-30 This book is published open access under a CC BY 4.0 license This book presents computer programming as a key method for solving mathematical problems This second edition of the well received book has been extensively revised All code is now written in Python version 3.6 no longer version 2.7 In addition the two first chapters of the previous edition have been extended and split up into five new chapters thus expanding the introduction to programming from 50 to 150 pages Throughout the book the explanations provided are now more detailed previous examples have been modified and new sections examples and exercises have been added Also a number of small errors have been corrected The book was inspired by the Springer book TCSE 6 A Primer on Scientific Programming with Python by Langtangen but the style employed 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 students to write simple programs for solving common mathematical problems with numerical methods in the context of engineering and science courses The emphasis is on generic algorithms clean program design the use of functions and automatic tests for verification

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