

```
import numpy
from ODESolver import RungeKutta4
```

```
def rhs(u, t):
    R = 1
    return alpha*u*(1 - u/R)
```

$$\frac{du}{dt} = \alpha u(1 - u/R)$$

$$u(0) = 0.1$$

$$R = 1$$

$$\alpha = 0.2$$

TEXTS IN COMPUTATIONAL SCIENCE
AND ENGINEERING

Hans Petter Langtangen

A Primer on Scientific Programming with Python

Fifth Edition

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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 **Mastering Python** Dr. Yudhvir Singh, Dr. Nisha, Even experienced Python programmers often write code that works but isn't as maintainable efficient or reusable as it could be Mastering Python is an advanced level guide that helps bridge that gap It goes beyond the basics to show how to use Python in a more Pythonic way employing newer features and best practices so your code is cleaner faster and more robust Writing Pythonic code adopting style idioms and syntax that are considered best practice in modern Python development Functional programming features decorators generators coroutines metaclasses Performance optimization efficient use of CPU and memory profiling concurrency asyncio multiprocessing Testing making sizable projects maintainable and shareable

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Learning Scientific Programming with Python Christian Hill,2020-10-22 This fast paced introduction to Python moves from the basics to advanced concepts enabling readers to gain proficiency quickly *The British National Bibliography* Arthur James Wells,2009 *Scientific Database and Programming Examples Using PHP,MySQL,XML,MATLAB,PYTHON,PERL* K.Y. Cheung,2011-09-27 This book deals with but is not limited to the following 1 A collection of typical computer programs written in Python and Matlab for scientific computations and their comparisons 2 Interfaces of Php Python Perl with Matlab and vice versa 3 Use of MySQL tables and XML for storing and transmitting scientific and economic data in scientific programming with Matlab Python and Perl 4 Converting from XML to MySQL tables and vice versa using Php 5 Creating XML and MySQL tables and retrieving data from them for inputting to Matlab and to Python using Php It is assumed that the reader has had some knowledge of Php Matlab Python Perl MySQL and XML As this book is written with Matlab programmers in mind the following books are highly recommended for understanding the details of computer programs in this book 1 Julie C Meloni PHP MySQL and Apache All in One 4th ed 2 Hans Petter Langtangen A Primer on Scientific Programming with Python 3 Robin Nixon PHP MySQL JavaScript K Y CHEUNG **Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen**,2009 *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 Applied Scientific Computing Peter R. Turner, Thomas Arildsen, Kathleen Kavanagh, 2018-07-18 This easy to understand textbook presents a modern approach to learning numerical methods or scientific computing with a unique focus on the modeling and applications of the mathematical content. Emphasis is placed on the need for and methods of scientific computing for a range of different types of problems, supplying the evidence and justification to motivate the reader. Practical guidance on coding the methods is also provided through simple to follow examples using Python. Topics and features provides an accessible and applications oriented approach supported by working Python code for many of the methods. Encourages both problem and project based learning through extensive examples, exercises and projects drawn from practical applications. Introduces the main concepts in modeling python programming, number representation and errors. Explains the essential details of numerical calculus, linear and nonlinear equations including the multivariable Newton method. Discusses interpolation and the numerical solution of differential equations covering polynomial interpolation, splines and the Euler Runge Kutta and shooting methods. Presents largely self contained chapters arranged in a logical order suitable for an introductory course on scientific computing. Undergraduate students embarking on a first course on numerical methods or scientific computing will find this textbook to be an invaluable guide to the field and to the application of these methods across such varied disciplines as computer science, engineering, mathematics, economics, the physical sciences and social science.

Introduction to Scientific Programming with Python Pankaj Jayaraman, 2025-02-20 Introduction to Scientific Programming with Python offers an immersive exploration into the dynamic field of scientific programming using Python. We cater to a diverse audience, serving as an entry point for novices and a valuable resource for seasoned practitioners in scientific computing. Python's popularity in scientific circles stems from its readability, versatility, and extensive libraries for numerical computing, data analysis, and visualization. We cover fundamental programming concepts and gradually introduce advanced techniques specific to scientific applications. From mastering Python basics to exploring advanced topics like machine learning and symbolic mathematics, each chapter provides a structured and hands-on learning experience. Real world case studies, practical examples, and exercises ensure readers grasp theoretical concepts and gain practical skills. Throughout the book, Python becomes a tool of empowerment, enabling readers to unravel complex scientific data, model intricate phenomena, and contribute meaningfully to their fields. Introduction to Scientific Programming with Python is an invaluable companion for harnessing Python's potential in scientific inquiry and discovery. By the end, readers will have a robust foundation in Python and the confidence to apply scientific programming methodologies to real world problems. This book unlocks the door to a world where Python drives exploration, discovery, and innovation in science. **A Student's Guide to Python for Physical Modeling** Jesse M. Kinder, Philip Nelson, 2021-08-03 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 **Finite Difference Computing with Exponential Decay Models** Hans Petter Langtangen,2016-06-10 This text provides a very simple initial introduction to the complete scientific computing pipeline models discretization algorithms programming verification and visualization The pedagogical strategy is to use one case study an ordinary differential equation describing exponential decay processes to illustrate fundamental concepts in mathematics and computer science The book is easy to read and only requires a command of one variable calculus and some very basic knowledge about computer programming Contrary to similar texts on numerical methods and programming this text has a much stronger focus on implementation and teaches testing and software engineering in particular

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