

```
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

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# A Primer On Scientific Programming With Python

**Hans Petter Langtangen**

## **A Primer On Scientific Programming With Python:**

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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

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Introduction to Scientific Programming with Python Joakim Sundnes,2020-07-01 This open access book offers an initial introduction to programming for scientific and computational applications using the Python programming language The presentation style is compact and example based making it suitable for students and researchers with little or no prior experience in programming The book uses relevant examples from mathematics and the natural sciences to present programming as a practical toolbox that can quickly enable readers to write their own programs for data processing and mathematical modeling These tools include file reading plotting simple text analysis and using NumPy for numerical computations which are fundamental building blocks of all programs in data science and computational science At the same time readers are introduced to the fundamental concepts of programming including variables functions loops classes and object oriented programming Accordingly the book provides a sound basis for further computer science and programming studies

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 Langstangen A Primer on Scientific Programming with Python 3 Robin Nixon PHP MySQL JavaScript K Y

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**Programming for Computations - MATLAB/Octave** Svein Linge,Hans Petter

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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

**Scientific Computing with Python** Claus Führer,Jan Erik Solem,Olivier Verdier,2021-07-30 Leverage this example packed comprehensive guide for all your Python computational needs Key FeaturesLearn the first steps within Python to highly specialized conceptsExplore 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 learnUnderstand the building blocks of computational mathematics linear algebra and related Python objectsUse Matplotlib to create high quality figures and graphics to draw and visualize resultsApply object oriented programming OOP to scientific computing in PythonDiscover how to use pandas to enter the world of data processingHandle exceptions for writing reliable and usable codeCover manual and automatic aspects of testing for scientific programmingGet to grips with parallel computing to increase computation speedWho this book is for This book is for students with a mathematical

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