

```
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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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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Designing and Developing Innovative Mobile Applications Samanta, Debabrata, 2023-04-12 Since mobile communication has become so ingrained in our daily lives many people find it difficult to function without a cellphone When the phone first came out the only commonly used features were calling and sending text messages texts The intelligent mobile phone has proven to be a multipurpose tool that works best for communication and aids in learning earning and having fun This in turn prompted several developers to consider creating mobile applications Designing and Developing Innovative Mobile Applications focuses on the fundamentals of the Android OS and its device features the deployment of any Android application and the activities and intents of Android programming Covering key topics such as mobile pages software development and communication this premier reference source is ideal for computer

scientists industry professionals researchers academicians scholars practitioners instructors and students [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

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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

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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

Programming: A Primer - Coding For Beginners Thomas James Bell,2015-07-03 Have you ever wanted to learn how to program but never found quite the right book to get you started Programming A Primer gets you going straight away with the fundamentals of what programming is basic programming with Python and the fundamental aspects of practical web development In this book you ll learn about Programming A Primer offers an easy way into coding for anyone with an interest in using technology to solve problems whether a school or new undergraduate computer science student or a working professional It gives everyone regardless of background the ideal foundations and motivation needed to get to grips with programming A companion website can be found here **Forthcoming Books** Rose Arny,2002-02

This book delves into A Primer On Scientific Programming With Python. A Primer On Scientific Programming With Python is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into A Primer On Scientific Programming With Python, encompassing both the fundamentals and more intricate discussions.

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- Chapter 5: Conclusion

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