

```
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
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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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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

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