

```
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

6

Hans Petter Langtangen

A Primer on Scientific Programming with Python

Second Edition

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