

Springer

5.
Auflage5th ed. 2016, XXXI, 922 p.
88 illus., 20 illus. in color.**Gedrucktes Buch**

Hardcover

Gedrucktes Buch

Hardcover

ISBN 978-3-662-49886-6

£ 52,99 | CHF 82,99 | 69,99 € |
76,99 € (A) | 74,89 € (D)

lieferbar

Rabattgruppe

Standard (0)

Produktkategorie

einführendes Lehrbuch

ReiheTexts in Computational Science and
Engineering**Other renditions**

Softcover

ISBN 978-3-662-57046-3

Mathematik : Wissenschaftliches Rechnen

Langtangen, Hans Petter, Simula Research Laboratory Center for Biomedical Computing, Fornebu

A Primer on Scientific Programming with Python

- Example-oriented text with all applications taken from science and engineering
- Aimed at newcomers to programming and Python, but proved to be useful for professionals too
- All examples are accompanied by complete program codes, which can be modified to the reader's needs
- Covers both Matlab-style "simple" programming and object-oriented programming
- Demonstrates how Python can be an alternative to Matlab in scientific computing

The book serves as a first introduction to computer programming of scientific applications, using the high-level Python language. The exposition is example and problem-oriented, where the applications are taken from mathematics, numerical calculus, statistics, physics, biology and finance. The book teaches "Matlab-style" and procedural programming as well as object-oriented programming. High school mathematics is a required background and it is advantageous to study classical and numerical one-variable calculus in parallel with reading this book. Besides learning how to program computers, the reader will also learn how to solve mathematical problems, arising in various branches of science and engineering, with the aid of numerical methods and programming. By blending programming, mathematics and scientific applications, the book lays a solid foundation for practicing computational science. From the reviews: Langtangen ... does an excellent job of introducing programming as a set of skills in problem solving. He guides the reader into thinking properly about producing program logic and data structures for modeling real-world problems using objects and functions and embracing the object-oriented paradigm. ... Summing Up: Highly recommended. F. H. Wild III, Choice, Vol.

Bestellen Sie online unter springer.com/booksellers**Springer Nature Customer Service Center GmbH**

Customer Service

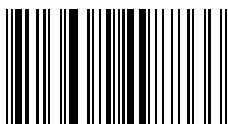
Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

row-booksellers@springernature.com



ISBN 978-3-662-49886-6 / BIC: PDE / SPRINGER NATURE: SCM14026

€ (D) sind gebundene Ladenpreise in Deutschland und enthalten 7 % für Printprodukte bzw. 19 % MwSt. für elektronische Produkte. € (A) sind gebundene Ladenpreise in Österreich und enthalten 10 % für Printprodukte bzw. 20 % MwSt. für elektronische Produkte. Die mit * gekennzeichneten Preise sind unverbindliche Preisempfehlungen und enthalten die landesübliche MwSt. Preisänderungen und Irrtümer vorbehalten.

Part of **SPRINGER NATURE**