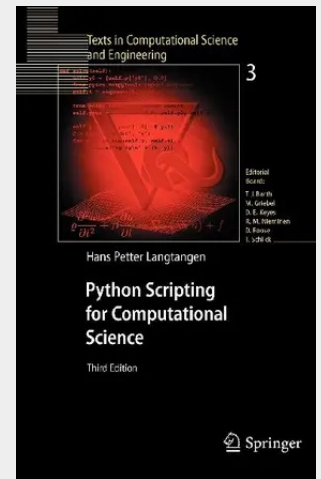


## Python Scripting for Computational Science

This book shows computational scientists how to develop tailored, flexible, and human-efficient working environments built from small scripts written in the easy-to-learn, high-level Python language. The focus is on examples and applications of relevance to computational scientists. All the tools and examples in this book are open source codes. The second edition features new material, reorganization of text, improved examples and tools, updated information, and correction of errors.

Numerous readers of the second edition have notified me about misprints and possible improvements of the text and the associated computer codes. The resulting modifications have been incorporated in this new edition and its accompanying software. The major change between the second and third editions, however, is caused by the new implementation of Numerical Python, now called numpy. The new numpy package encourages a slightly different syntax compared to the old Numeric implementation, which was used in the previous editions. Since Numerical Python functionality appears in a lot of places in the book, there are hence a huge number of updates to the new suggested numpy syntax, especially in Chapters 4, 9, and 10. The second edition was based on Python version 2.3, while the third edition contains updates for version 2.5. Recent Python features, such as generator expressions (Chapter 8.9.4), Ctypes for interfacing shared libraries in C (Chapter 5.2.2), the with statement (Chapter 3.1.4), and the subprocess module for running external processes (Chapter 3.1.3) have been exemplified to make the reader aware of new tools. Chapter 4.4.4 is new and gives a taste of symbolic mathematics in Python.



**64,19 €**

59,99 € (zzgl. MwSt.)

*Lieferfrist: bis zu 10 Tage*

**Artikelnummer:** 9783540739159

**Medium:** Buch

**ISBN:** 978-3-540-73915-9

**Verlag:** Springer

**Erscheinungstermin:** 11.12.2007

**Sprache(n):** Englisch

**Auflage:** Third Auflage 2008

**Serie:** Texts in Computational Science and Engineering

**Produktform:** Gebunden

**Gewicht:** 1326 g

**Seiten:** 756

**Format (B x H):** 160 x 241 mm

