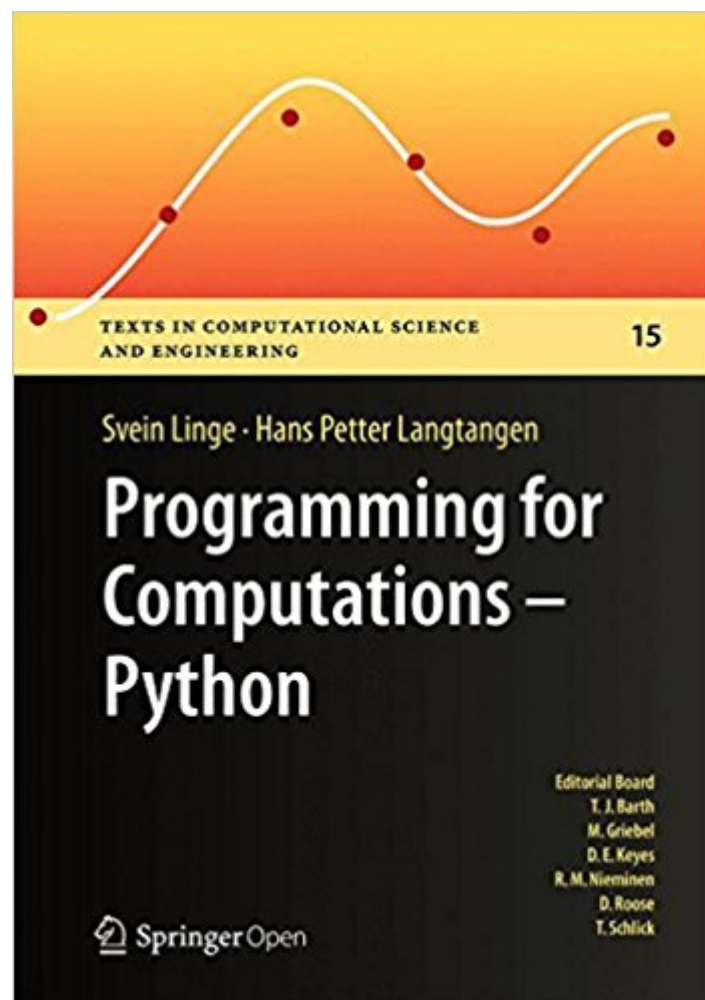


The book was found

Programming For Computations - Python: A Gentle Introduction To Numerical Simulations With Python (Texts In Computational Science And Engineering)





Synopsis

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 verification.

Book Information

Series: Texts in Computational Science and Engineering (Book 15)

Hardcover: 232 pages

Publisher: Springer; 1st ed. 2016 edition (July 8, 2016)

Language: English

ISBN-10: 3319324276

ISBN-13: 978-3319324272

Product Dimensions: 7 x 0.6 x 10 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #541,330 in Books (See Top 100 in Books) #68 in [Books > Science & Math > Mathematics > Number Systems](#) #151 in [Books > Textbooks > Computer Science > Algorithms](#) #348 in [Books > Computers & Technology > Programming > Algorithms](#)

Customer Reviews

“The book uses programming to impart a deeper understanding of the pragmatic meaning of some of the mathematics most frequently used in engineering and the sciences. | This very good introductory textbook could be used in a variety of courses. A motivated reader with knowledge of calculus could easily use it for self-study. I highly recommend it.” (David Naugler, Computing Reviews, February, 2017)

“This book is intended for novice programmers, especially students, teachers, engineers and scientists from areas related to mathematics and numerical mathematics. | each treated concept is illustrated and explained in detail by means of working examples. On the basis of exercises, the reader is given the opportunity to deepen acquired knowledge. | The clear presentation and the large number of

concrete examples, often with a graphical output, make this book ideally suited for self-study and ensures a quick success. (Stefan Meyer, zbMATH 1350.68003, 2017)

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 verification.

[Download to continue reading...](#)

Programming for Computations - Python: A Gentle Introduction to Numerical Simulations with Python (Texts in Computational Science and Engineering) Python: Programming: Your Step By Step Guide To Easily Learn Python in 7 Days (Python for Beginners, Python Programming for Beginners, Learn Python, Python Language) Python Programming: Python Programming for Beginners, Python Programming for Intermediates, Python Programming for Advanced Python: The Complete Python Quickstart Guide (For Beginner's) (Python, Python Programming, Python for Dummies, Python for Beginners) Hacking with Python: Beginner's Guide to Ethical Hacking, Basic Security, Penetration Testing, and Python Hacking (Python Programming, Hacking, Python Coding, Python and Hacking Book 3) PYTHON: PYTHON'S COMPANION, A STEP BY STEP GUIDE FOR BEGINNERS TO START CODING TODAY! (INCLUDES A 6 PAGE PRINTABLE CHEAT SHEET)(PYTHON FOR BEGINNERS, PYTHON FOR DUMMIES, PYTHON PROGRAMMING) PYTHON: LEARN PYTHON in A Day and MASTER IT WELL. The Only Essential Book You Need To Start Programming in Python Now. Hands On Challenges INCLUDED! (Programming for Beginners, Python) A Primer on Scientific Programming with Python (Texts in Computational Science and Engineering) Python Programming: An In-Depth Guide Into The Essentials Of Python Programming (Included: 30+ Exercises To Master Python in No Time!) C++ and Python Programming: 2 Manuscript Bundle: Introductory Beginners Guide to Learn C++ Programming and Python Programming C++ and Python Programming 2 Bundle Manuscript. Introductory Beginners Guide to Learn C++ Programming and Python Programming Python Programming: The Complete Step By Step Guide to Master Python Programming and Start Coding Today! (Computer Programming Book 4) Data Analytics and Python Programming: 2 Bundle Manuscript: Beginners

Guide to Learn Data Analytics, Predictive Analytics and Data Science with Python Programming
Introduction to Programming with Greenfoot: Object-Oriented Programming in Java with Games and
Simulations (2nd Edition) Python: Learn Python in a Day and Master It Well: The Only Essential
Book You Need to Start Programming in Python Now Python: The Fundamentals Of Python
Programming: A Complete Beginners Guide To Python Mastery. Python Programming Advanced: A
Complete Guide on Python Programming for Advanced Users Python Programming Guide + SQL
Guide - Learn to be an EXPERT in a DAY!: Box Set Guide (Python Programming, SQL) Python
Programming for Beginners: A Comprehensive Guide to Learning the Basics of Python
Programming C++: The Ultimate Crash Course to Learning the Basics of C++ (C programming, C++
in easy steps, C++ programming, Start coding today) (CSS,C Programming, ... Programming,PHP,
Coding, Java Book 1)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)