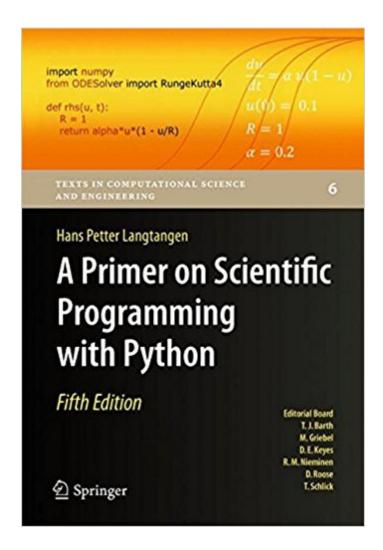


The book was found

A Primer On Scientific Programming With Python (Texts In Computational Science And Engineering)





Synopsis

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: à Langtangen â⠬ 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. $\hat{A}\phi\hat{a} - \hat{A}$ Summing Up: Highly recommended. A A F. H. Wild III, Choice, Vol. 47 (8), April 2010Those of us who have learned scientific programming in Python â⠬˜on the streetsââ ¬â,¢ could be a little jealous of students who have the opportunity to take a course out of Langtangenââ ¬â,¢s Primer.â⠬•Ã Â John D. Cook, The Mathematical Association of America, September 2011This book goes through Python in particular, and programming in general, via tasks that scientists will likely perform. It contains valuable information A A for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science. Alex Small, IEEE, CiSE Vol. 14 (2), Marchââ \neg Š/April 2012 à ââ \neg Å"This fourth edition is a wonderful, inclusive textbook that covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Pythonââ ¬Â|â⠬• Joan Horvath, Computing Reviews, March 2015à Ã Â

Book Information

Series: Texts in Computational Science and Engineering (Book 6)

Hardcover: 922 pages

Publisher: Springer; 5th ed. 2016 edition (July 9, 2016)

Language: English

ISBN-10: 3662498863

ISBN-13: 978-3662498866

Product Dimensions: 7.6 x 1.7 x 10.3 inches

Shipping Weight: 5.3 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #203,144 in Books (See Top 100 in Books) #85 inà Books > Textbooks > Computer Science > Object-Oriented Software Design #114 inà Books > Science & Math > Physics > Mathematical Physics #173 inà Â Books > Computers & Technology > Databases & Big Data > Data Processing

Customer Reviews

 \tilde{A} ¢â $\neg \hat{A}$ "This update to previous editions \tilde{A} ¢â $\neg \hat{A}$ continues to serve as an excellent introduction to scientific programming and the Python programming language. ââ ¬Â| Each chapter has a significant collection of exercises, which reinforce the concepts contained in the chapter. $\tilde{A}\phi\hat{a} - \hat{A}$ this is an excellent book for any individual starting to learn scientific programming, and it will serve as a great reference book for those working in the field. Summing Up: Recommended. Lower- and upper-division undergraduates. â⠬• (D. B. Mason, Choice, Vol. 54 (9), May, 2017) ââ ¬Å"The authors have made a very concerted effort to describe Python in a very easy, flowing way with many useful case studies. $\tilde{A}\phi\hat{a} - \hat{A}I$ have no hesitation in recommending this book for senior high school students or freshmen in college. One must certainly have access to the Python development environment, and this book will be a worthy companion in the journey to mastering programming concepts.â⠬• (Naga Narayanaswamy, Computing Reviews, May, 2017)ââ ¬Å"All the concepts are illustrated using relatively simple examples that are mostly mathematical. $\tilde{A}\phi\hat{a} - \hat{A}$ This book gives a thorough course to learn Python, and yet it is all brought at the level of a first year at the university. The fact that each concept is introduced with an example is essential. \tilde{A} ¢â $\neg \hat{A}$ it is a description of how the language is used, which is a very natural approach. $\tilde{A}\phi \hat{a} - \hat{A} \cdot (European)$ Mathematical Society, euro-math-soc.eu, August, 2016)

Hans Petter Langtangen is a professor of computer science at the University of Oslo. He has formerly been a professor of mechanics and is now the director of a Norwegian Center of Excellence: "Center for Biomedical Computing", at Simula Research Laboratory. Langtangen has published over 100 scientific publications and written several books, including papers and the bestseller TCSE 6 "A Primer on Scientific Programming with Python", now in its 5th edition. He has also developed open source and commercial software systems for computational sciences.

Download to continue reading...

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) A Primer on Scientific Programming with Python (Texts in Computational Science and Engineering) 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) Programming for Computations - Python: A Gentle Introduction to Numerical Simulations 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 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 Scientific Computing with MATLAB and Octave (Texts in Computational Science and Engineering) Maya Python for Games and Film: A Complete Reference for Maya Python and the Maya Python API

DMCA

Privacy

FAQ & Help