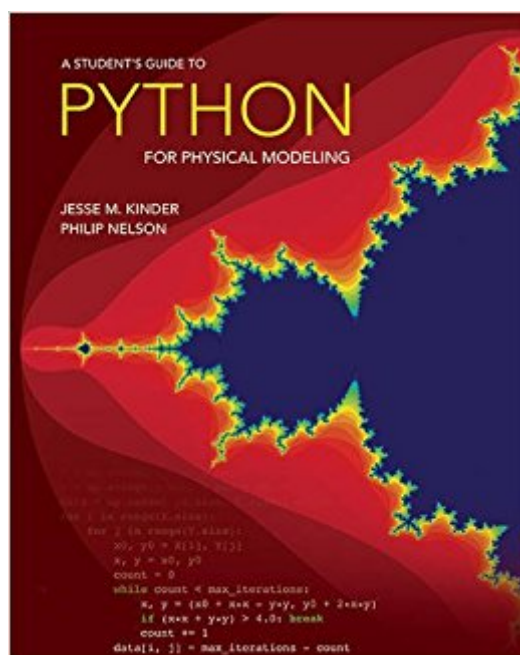


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# A Student's Guide To Python For Physical Modeling



## Synopsis

Python is a computer programming language that is rapidly gaining popularity throughout the sciences. A Student's Guide to Python for Physical Modeling aims to help you, the student, teach yourself enough of the Python programming language to get started with physical modeling. You will learn how to install an open-source Python programming environment and use it to accomplish many common scientific computing tasks: importing, exporting, and visualizing data; numerical analysis; and simulation. No prior programming experience is assumed. This tutorial focuses on fundamentals and introduces a wide range of useful techniques, including: Basic Python programming and scripting Numerical arrays Two- and three-dimensional graphics Monte Carlo simulations Numerical methods, including solving ordinary differential equations Image processing Animation Numerous code samples and exercises--with solutions--illustrate new ideas as they are introduced. Web-based resources also accompany this guide and include code samples, data sets, and more.

## Book Information

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## Customer Reviews

I just found this by "accident" while googling a question about python. I am so very happy to have found this book - I purchased the kindle version within minutes of finding it (the paper version is not available for another month) - I just knew this would be a great book. My hunch was right - I love this book! I have been on and off using Python for at least 6 or 7 years as needed for scientific computing. I have perused many of the most popular Python books and purchased a good many.

What usually happens is I lose interest quickly and never finish the book. But this book seems different. It is written in a very clear language and gets right to the point of programming with Python and uses the latest packages such as Anaconda or Enthought Canopy with focus on numpy and matplotlib. I really like the style of the book and the content. The level is for beginning programmers (which I am not) but suitable for intermediate and advanced programmers for sure. I highly recommend this for self-study as all the programs are available online and they actually work out of the box. I am sure I will finish this book and refer back to it for years to come.

Not a bad quick starter to python for undergraduates in natural sciences and engineering. You will get an overview of programming basics and the necessary python libraries such as NumPy, SciPy, and Matplotlib. I do wish there was more content on the SymPy package.

I just finished reading and working all examples in this book. I highly recommend it for anyone interested in scientific computing. The authors' style is straightforward and economical. The topics are well chosen, starting from the simple and working up to the meaty.

A perfect start for a beginner.

As Python (the language) spreads across the globe, this and others to follow become must reads

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