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Introduces computing concepts and Python programming in a breadth-first manner, starting from a small general-purpose vocabulary and then gradually extending it. This approach allows students to write small functions and for exercises early in the course, and also allows homework assignments to be set up as applications (i.e. complete functions) early on.

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Academia.edu is a platform for academics to share research papers.

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1 Introduction This text summarises a number of core ideas relevant to Computational Engineering and Scientific Computing using Python. The emphasis is on introducing some basic Python (programming) concepts that are relevant for numerical algorithms.

*Computing in Python I: Fundamentals and Procedural ...*

Perkovic's Introduction to Programming Using Python provides an imperative-first introduction to Python focusing on computer applications and the process of developing them. The text helps develop

computational thinking skills by covering patterns of how problems can be broken down and constructively solved to produce an algorithmic solution.

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**Introduction To Computing Using Python - Programmer Books**

The Python web site provides a Python Package Index (also known as the Cheese Shop, a reference to the Monty Python script of that name). There is also a search page for a number of sources of Python-related information. Failing that, just Google for a phrase including the word "python" and you may well get the result you need.

**Introduction to Computing Using Python, 2nd Edition - PDF ...**

Introduction to computing using Python : an application development

focus / Ljubomir Perkovic, DePaul University. – Second edition. pages cm Includes index. ISBN 978-1-118-89094-3 (pbk.)

1. Python (Computer program language) 2. Object-oriented

programming (Computer science) 3. Computer programming. I. Title. QA76.73.P98P47 2015  
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problems and solutions appearing throughout the text.

*Introduction to Computing Using Python: An Application ...*

Introduction This open access book offers an initial introduction to programming for scientific and computational applications using the Python programming language. The presentation style is compact and example-based, making it suitable for students and researchers with little or no prior experience in programming.

[Introduction to Computing Using Python: An Application ...](#)

"Introduction to Computing in Python" is a series of courses built from Georgia Tech's online for-credit version of CS1301: Introduction to Computing. The series is designed to take you from no computer science background whatsoever to proficiency in the basics of computing and programming, specifically in the popular programming language Python.

**Python For Beginners | Python.org**

This book introduces students with little or no prior programming experience to the art of computational problem solving using Python and various Python libraries, including PyLab. It provides

students with skills that will enable them to make productive use of computational techniques, including some of the tools and techniques of "data science" for using computation to model and interpret data.

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[Introduction to Scientific Programming with Python ...](#)

This course is the first of a two-course sequence: Introduction to Computer Science and Programming Using Python, and Introduction to Computational Thinking and Data Science. Together, they are designed to help people with no prior exposure to computer science or programming learn to think computationally and write programs to tackle useful problems.

*Introduction to Computation and Programming Using Python ...*

Introduction to Computer

Science Using Python: A Computational Problem-Solving Focus, recommended by Guido van Rossum, the creator of Python ("This is not your average Python book...I think this book is a great text for anyone teaching CS1").  
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