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Titolo	NumPy beginner's guide : build efficient, high-speed programs using the high-performance NumPy mathematical library / / Ivan Idris
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ISBN	1-78528-883-0
Edizione	[3rd ed.]
Descrizione fisica	1 online resource (348 p.)
Collana	Learn by doing : less theory, more results
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Soggetti	Mathematics - Data processing Python (Computer program language) Mathematical analysis
Lingua di pubblicazione	Inglese
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Nota di contenuto	Cover; Copyright; Credits; About the Author; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: NumPy Quick Start; Python; Time for action - installing Python on different operating systems; The Python help system; Time for action - using the Python help system; Basic arithmetic and variable assignment; Time for action - using Python as a calculator; Time for action - assigning values to variables; The print() function; Time for action - printing with the print() function; Code comments; Time for action - commenting code; The if statement Time for action - deciding with the if statementThe for loop; Time for action - repeating instructions with loops; Python functions; Time for action - defining functions; Python modules; Time for action - importing modules; NumPy on Windows; Time for action - installing NumPy, matplotlib, SciPy, and IPython on Windows; NumPy on Linux; Time for action - installing NumPy, matplotlib, SciPy, and IPython on Linux; NumPy on Mac OS X; Time for action - installing NumPy, SciPy, matplotlib, and IPython with MacPorts or Fink; Building from source; Arrays; Time for action - adding vectors IPython - an interactive shellOnline resources and help; Summary;

Sommario/riassunto	This book is for the scientists, engineers, programmers, or analysts looking for a high-quality, open source mathematical library. Knowledge of Python is assumed. Also, some affinity, or at least interest, in mathematics and statistics is required. However, I have provided brief explanations and pointers to learning resources.