1. Record Nr. UNINA9910299824203321

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Titolo	An Introduction to Python and Computer Programming / / by Yue Zhang
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2015
ISBN	981-287-609-X
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (300 p.)
Collana	Lecture Notes in Electrical Engineering, , 1876-1100 ; ; 353
Disciplina	005.133
Soggetti	Applied mathematics Engineering mathematics Programming languages (Electronic computers) Electrical engineering Computer programming Mathematical and Computational Engineering Programming Languages, Compilers, Interpreters Communications Engineering, Networks Programming Techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	An introduction to Python and computer programming -- Using Python as a Calculator -- The First Python Program -- Branching and Looping -- Problem solving using branches and loops -- Functions -- Lists and mutability -- Sequences, Mappings and Sets -- Problem solving using lists and functions -- Classes -- Summary.
Sommario/riassunto	This book introduces Python programming language and fundamental concepts in algorithms and computing. Its target audience includes students and engineers with little or no background in programming, who need to master a practical programming language and learn the basic thinking in computer science/programming. The main contents come from lecture notes for engineering students from all disciplines, and has received high ratings. Its materials and ordering have been adjusted repeatedly according to classroom reception. Compared to alternative textbooks in the market, this book introduces the underlying Python implementation of number, string, list, tuple, dict,

function, class, instance and module objects in a consistent and easy-to-understand way, making assignment, function definition, function call, mutability and binding environments understandable inside-out. By giving the abstraction of implementation mechanisms, this book builds a solid understanding of the Python programming language.