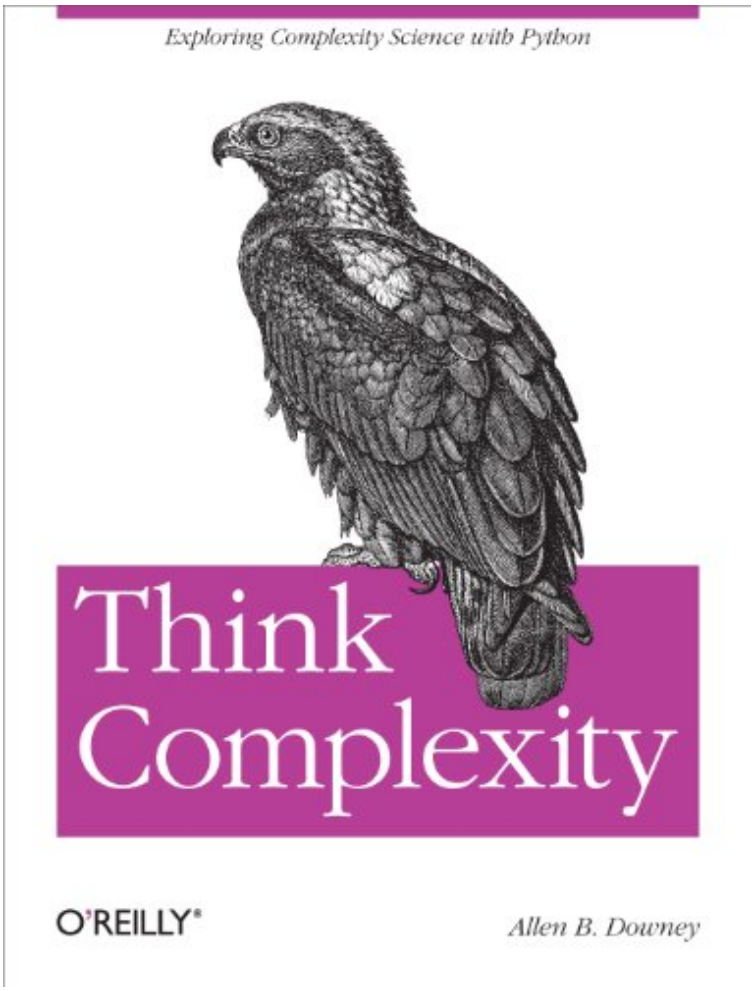
Think Complexity: Complexity Science and Computational Modeling

Von Allen B. Downey
*audiobook | *ebooks | Download PDF | ePub | DOC*



Produktinformation -Verkaufsrang: #378759 in eBooksVerffentlicht am: 2012-02-23Erscheinungsdatum: 2012-02-23File Name: B007ECM460 | File size: 19.Mb

Von Allen B. Downey : Think Complexity: Complexity Science and Computational Modeling before purchasing it in order to gage whether or not it would be worth my time, and all praised Think Complexity: Complexity Science and Computational Modeling:

KundenrezensionenHilfreichste Kundenrezensionen3 von 3 Kunden fanden die folgende Rezension hilfreich. Regt zum mitarbeiten anVon Theodor FabelEndlich ein Buch, das nicht mit Codebeispielen angefllt ist sondern mit Quellenangaben und guter Beschreibung den Leser zum Lsen von technischen / mathematischen / konomischen Aufgabenstellungen einldt. Nebenbei werden noch Prinzipen von Python erklrt und falls man Schwierigkeiten beim Lsen hat, gibt es Links zu Lsungsvarianten. Ebenso werden praktische Libraries fr Python verwendet, so kann man diese auf in seine eigenen Projekte einbinden. Ein sehr gelungenes Buch, allerdings nichts fr Programmieranfnger,

Grundkenntnisse in Python sind ebenfalls notwendig!6 von 6 Kunden fanden die folgende Rezension hilfreich. Challenging but rewardingVon mkoThis one is not an easy one. Allen guides you through the various, complex, algorithms and data structures. This book is not for a beginners ' you have to know Python already to solve exercises presented by author. The complexity of the book itself is also rather for slightly advanced developers. If you just start your journey with Python development it may be hard to follow.What I liked, however, is the way Allen presents the material. He tries to show you different aspects of the development process and refers not only to computer science but to philosophy and mathematics as well. Even if you won't be able to solve all the presented puzzles it is still worth getting through the book.Few remarks regarding what I really liked in the book. First of all, Allen provides you with lots of references. So, if you are interested in particular topic, you have plenty of sources to start with. Secondly, Allen provides you with references to Wikipedia very often. This is not regarded usually as a good source among 'university like people', however I like this kind of approach a lot.

KurzbeschreibungExpand your Python skills by working with data structures and algorithms in a refreshing contextthrough an eye-opening exploration of complexity science. Whether youre an intermediate-level Python programmer or a student of computational modeling, youll delve into examples of complex systems through a series of exercises, case studies, and easy-to-understand explanations.Youll work with graphs, algorithm analysis, scale-free networks, and cellular automata, using advanced features that make Python such a powerful language. Ideal as a text for courses on Python programming and algorithms, Think Complexity will also help self-learners gain valuable experience with topics and ideas they might not encounter otherwise.Work with NumPy arrays and SciPy methods, basic signal processing and Fast Fourier Transform, and hash tablesStudy abstract models of complex physical systems, including power laws, fractals and pink noise, and Turing machinesGet starter code and solutions to help you re-implement and extend original experiments in complexityExplore the philosophy of science, including the nature of scientific laws, theory choice, realism and instrumentalism, and other topicsExamine case studies of complex systems submitted by students and readers