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COMPLEXITY SCIENCE AND COMPUTATIONAL MODELING

Allen B. Downey

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Allen Downey

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testing code and debugging And more System of Systems Modeling and Analysis Daniel A. DeLaurentis, Kushal Moolchandani, Cesare Guariniello, 2022-12-05 System of Systems Modeling and Analysis provides the reader with motivation theory methodology and examples of modeling and analysis for system of system SoS problems In addition to theory this book contains history and conceptual definitions as well as the theoretical fundamentals of SoS modeling and analysis It then describes methods for SoS modeling and analysis including use of existing methodology and original work specifically oriented to SoS Providing a bridge between theory and practice for modeling and analysis of SoS this book includes generalized concepts and Methods Tools and Processes MTP applicable to SoS across any application domain Examples of application from various fields will be used to provide a practical demonstration of the use of the methodologies Features Offers a modern presentation of SoS principles and guided description of applying a modeling and analysis process to SoS engineering Provides additional modeling approaches useful for SoS engineering including agent based modeling Covers the current gap in literature between theory and modeling application Features examples of applications from various fields such as energy grids and regional transportation Includes questions examples and exercises at the end of each chapter This book is intended for senior undergraduate students in engineering programs studying SoS modeling SoS analysis and SoS engineering courses Professional engineers will also benefit from MTP and examples as a baseline for specific user Think Complexity Allen B. Downey, 2012 This book is about complexity science data structures and applications algorithms intermediate programming in Python and the philosophy of science Data structures and algorithms A data structure is a collection that contains data elements organized in a way that supports particular operations For example a dictionary organizes key value pairs in a way that provides fast mapping from keys to values but mapping from values to keys is generally slower An algorithm is a mechanical process for performing a computation Designing efficient programs often involves the co evolution of data structures and the algorithms that use them For example the first few chapters are about graphs a data structure that is a good implementation of a graph nested dictionaries and several graph algorithms that use this data structure Python programming This book picks up where Think Python leaves off I assume that you have read that book or have equivalent knowledge of Python As always I will try to emphasize fundamental ideas that apply to programming in many languages but along the way you will learn some useful features that are specific to Python Computational modeling A model is a simplified description of a system that is useful for simulation or analysis Computational models are designed to take advantage of cheap fast computation Philosophy of science The models and results in this book raise a number of questions relevant to the philosophy of science including the nature of scientific laws theory choice realism and instrumentalism holism and reductionism and Bayesian epistemology This book focuses on discrete models which include graphs cellular automata and agent based models They are often characterized by structure rules and transitions rather than by equations They tend to be more abstract than continuous models in some cases there is no direct correspondence between

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