

## Data Driven Modeling Scientific Computation Methods For Complex Systems Big Data 1st Edition By Kutz J Nathan 2013 Paperback

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This webpage is designed as the primary source of lectures, notes, codes and data for the textbook by J. N. Kutz on Data-Driven Modeling and Scientific Computation. The book has three parts which form the basis of three courses at the University of Washington. Part 1: Beginning Scientific Computing (AMATH 301), Part 2: Scientific Computing (AMATH 581), and Part 3: Computational Methods for Data Analysis.

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This is a particularly exciting field and much of the final part of the book is driven by intuitive examples from it, showing how the three areas can be used in combination to give critical insight into the fundamental workings of various problems. Data-Driven Modeling and Scientific Computation is a survey of practical numerical solution techniques for ordinary and partial differential equations as well as algorithms for data manipulation and analysis.

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### Data-Driven Modeling & Scientific Computation

Combining scientific computing methods and algorithms with modern data analysis techniques, including basic applications of compressive sensing and machine learning, this book develops techniques that allow for the integration of the dynamics of complex systems and big data. MATLAB is used throughout for mathematical solution strategies.

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