Python for Scientists
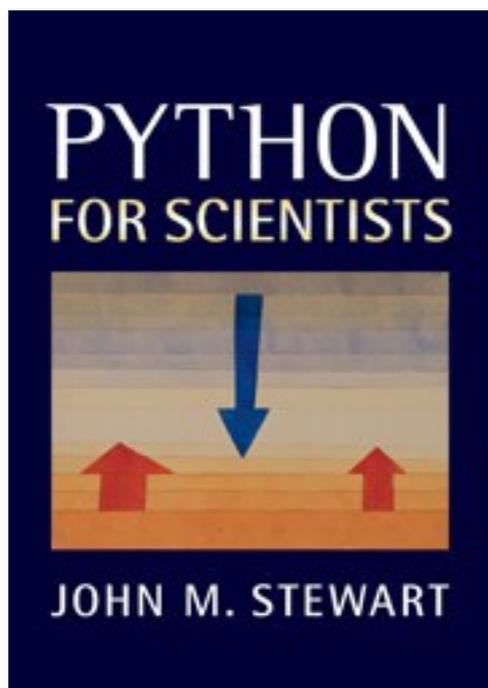
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Book Description

Python is a free and easy-to-use software tool that offers a significant alternative to proprietary packages such as MATLAB and Mathematica. This book explains Python from scratch, covering everything students and researchers need to get up and running. No previous knowledge of the software is required.

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John M. Stewart is Emeritus Reader in Gravitational Physics at the University of Cambridge, and a Life Fellow at King's College, Cambridge.

目录: Preface; 1. Introduction; 2. Getting started with IPython; 3. A short Python tutorial; 4. Numpy; 5. Two-dimensional graphics; 6. Three-dimensional graphics; 7. Ordinary differential equations; 8. Partial differential equations: a pseudospectral approach; 9. Case study: multigrid; 10. Appendix A. Installing a Python environment; Appendix B. Fortran77 subroutines for pseudospectral methods; References; Index.
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