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Numerical Python: A Practical Techniques Approach for Industry

Robert Johansson
Apress, New York, 2015.
ISBN 1-4842-0554-9. 487 pp. USD 59.99 (P).
<http://www.apress.com/9781484205549>

This is a very useful book, especially for *Journal of Statistical Software (JSS)* readers who wish to learn more about numerical methods and/or scientific applications of Python. Though arguably the book focuses more on numerical analysis than on statistics, it has three solid chapters on the latter, plus abundant infrastructure material useful for statisticians. The author, a physicist by background, has more recently been working in the data science area.

Given the rather lengthy size of the book, the author does not attempt to include a basic Python tutorial. The reader is assumed to have some prior experience with the language. However, such background may be quickly acquired from the numerous tutorials on the web (such as my *Fast Lane to Python*, <http://heather.cs.ucdavis.edu/pyfast.pdf>). The author does recommend the use of development environments, notably **IPython** (now transitioning to **Jupyter**) and **Spyder**, which are introduced briefly in Chapter 1.

Those with just a passing familiarity with Python, though, will find that they must first learn some infrastructure material on numeric Python, specifically the **NumPy** and **SciPy** packages, which are presented clearly in the early chapters. R programmers will find Chapter 2 well within their comfort zone, with lots of similarities.

Some readers may be a bit startled to see that Chapter 3 then covers an unusual topic, symbolic computing, but this reviewer was delighted to see it. Here the **SymPy** package is presented in a fair amount of detail, and even those with no background in symbolic math will find themselves able to manipulate algebraic expressions, including matrix-valued ones, with rather little effort.

Chapter 4, *Plotting and Visualization*, uses **Matplotlib**. My own preference would be for R's extensive – and more statistics-oriented – graphical facilities, but the **Matplotlib** APIs are clean and easy to apply.

Chapters 5–11 are devoted to classical numerical methods, such as the solution of ODEs, but many *JSS* readers will find Chapter 10, *Sparse Matrices and Graphs*, to be of interest. There is a nice section at the end on analysis and display of random graphs.

Numerical Approach To The Location Of Industry

Minjie Lin



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