



Scientific Computation: Python Hacking for Math Junkies

Bruce E Shapiro

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Computers are wonderful things. They improve our lives and produce works of art. Information and communication are free and available in ways that were undreamed of by many a generation ago.

And yet computers inspire fear when they are used improperly or misunderstood.

Everyone uses computers today. The typical student uses at least three: a portable notebook computer, a tablet, and a cell phone. None of these even existed before this year's college graduating class was born. So a reasonable amount of computer literacy is expected of everyone these days.

Though inspired by mathematics, much of the mathematical beauty of computation is largely ignored by both elementary computer science and introductory programming books.

This book is designed to help math junkies - anyone who likes math, studies math, or uses math in their daily life - learn about computation. The emphasis is on algorithms. It is appropriate for students with no prior programming experience as well as professional scientists.

Contents: Python expressions, statements, types, lists, arrays, functions, classes, plotting list comprehension and recursion are covered in detail. Applications include linear systems, computational geometry, root finding, interpolation, polynomial least squares, discrete systems, differential equations, principal component analysis, fractals and chaos.

Target audience: undergraduate math and science students entering their upper level curriculum. Calculus and some linear algebra background is helpful; a review of linear algebra is included as an appendix. No prior programming experience is expected.

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Rick Briones:

This Scientific Computation: Python Hacking for Math Junkies is great book for you because the content and that is full of information for you who have always deal with world and still have to make decision every minute. This book reveal it info accurately using great arrange word or we can point out no rambling sentences in it. So if you are read the item hurriedly you can have whole info in it. Doesn't mean it only provides you with straight forward sentences but hard core information with beautiful delivering sentences. Having Scientific Computation: Python Hacking for Math Junkies in your hand like obtaining the world in your arm, details in it is not ridiculous a single. We can say that no publication that offer you world with ten or fifteen second right but this reserve already do that. So , this can be good reading book. Heya Mr. and Mrs. hectic do you still doubt that will?

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Dennis Green:

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