

# Arrays And Array Methods In Global Seismology

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## KENDRICK ALBERT

[JavaScript: The Good Parts](#) "O'Reilly Media, Inc."  
 For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python Matplotlib: includes capabilities for a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms  
[Mastering JavaScript Arrays](#) Que Publishing  
 Why learn F#? With this guide, you'll learn how this multi-paradigm language not only offers you an enormous productivity boost through functional programming, but also lets you develop applications using your existing object-oriented and imperative programming skills. You'll quickly discover the many advantages of the language, including access to all the great tools and libraries of the .NET platform. Reap the benefits of functional programming for your next project, whether you're writing concurrent code, or building data- or math-intensive applications. With this comprehensive book, former F# team member Chris Smith gives you a head start on the fundamentals and walks you through advanced concepts of the F# language. Learn F#'s unique characteristics for building applications Gain a solid understanding of F#'s core syntax, including object-oriented and imperative styles Make your object-oriented code better by applying functional programming patterns Use advanced functional techniques, such as tail-recursion and computation expressions Take advantage of multi-core processors with asynchronous workflows and parallel programming Use new type providers for interacting with web services and information-rich environments Learn how well F# works as a scripting language  
**Single, Multi-dimensional, Associative and Object Arrays in**

## PHP 7 Springer Science & Business Media

In this report a new method is presented for designing arrays of parallel wire antennas. The method relates a desired pattern directly with required feed voltages such that mutual coupling is taken into account in the design procedure. The technique uses matrix methods together with results of the 'Method of Moments' to determine the self and mutual impedances and the required excitations. The design method can be applied to circular, elliptical, and other planar arrays, although attention is restricted here to linear arrays. The feed points and the array geometry must be specified. An example is included. (Author).

## LabVIEW for Everyone John Wiley & Sons

We'll be dealing with collections of data using Arrays all the time. This book will start with the basics and dive deeper into all the cool things Arrays can do.

## JavaScript Cookbook "O'Reilly Media, Inc."

Scientists working or planning to work in the field of cardiovascular research will welcome Practical Methods in Cardiovascular Research as the reference book they have long been waiting for. Not only general aspects of cardiovascular research are well presented, but also detailed descriptions of methods and protocols and practical examples. Written by leading scientists in their field, chapters cover classical methods such as the Langendorff heart or working heart models as well as numerous new techniques and methods. Newcomers and experienced researchers alike will benefit from the troubleshooting guide in each chapter, the extensive reference lists for advanced reading and the great practical experience of the authors. Practical Methods in Cardiovascular Research is therefore a long awaited "must have" for anybody with an interest in cardiovascular research.

## Python for Data Analysis Springer Science & Business Media

Circuits and architectures have become more complex in terms of structure, interconnection topology, and data flow. Design correctness has become increasingly significant, as errors in design may result in strenuous debugging, or even in the repetition of a costly manufacturing process. Although circuit simulation has been used traditionally and widely as the technique for checking hardware and architectural designs, it does not guarantee the conformity of designs to specifications. Formal methods therefore become vital in guaranteeing the correctness of designs and have thus received a significant amount of attention in the CAD industry today. This book presents a formal method for specifying and verifying the correctness of systolic array designs. Such architectures are commonly found in the form of accelerators for digital signal, image, and video processing. These arrays can be quite complicated in topology and data flow. In the book, a formalism called STA is defined for these kinds of dynamic environments, with a survey of related

techniques. A framework for specification and verification is established. Formal verification techniques to check the correctness of the systolic networks with respect to the algorithmic level specifications are explained. The book also presents a Prolog-based formal design verifier (named VSTA), developed to automate the verification process, as using a general purpose theorem prover is usually extremely time-consuming. Several application examples are included in the book to illustrate how formal techniques and the verifier can be used to automate proofs.

**The Elements of Neutron Interacting Arrays** World Scientific  
 Find a Perl programmer, and you'll find a copy of Perl Cookbook nearby. Perl Cookbook is a comprehensive collection of problems, solutions, and practical examples for anyone programming in Perl. The book contains hundreds of rigorously reviewed Perl "recipes" and thousands of examples ranging from brief one-liners to complete applications. The second edition of Perl Cookbook has been fully updated for Perl 5.8, with extensive changes for Unicode support, I/O layers, mod\_perl, and new technologies that have emerged since the previous edition of the book. Recipes have been updated to include the latest modules. New recipes have been added to every chapter of the book, and some chapters have almost doubled in size. Covered topic areas include: Manipulating strings, numbers, dates, arrays, and hashes Pattern matching and text substitutions References, data structures, objects, and classes Signals and exceptions Screen addressing, menus, and graphical applications Managing other processes Writing secure scripts Client-server programming Internet applications programming with mail, news, ftp, and telnet CGI and mod\_perl programming Web programming Since its first release in 1998, Perl Cookbook has earned its place in the libraries of serious Perl users of all levels of expertise by providing practical answers, code examples, and mini-tutorials addressing the challenges that programmers face. Now the second edition of this bestselling book is ready to earn its place among the ranks of favorite Perl books as well. Whether you're a novice or veteran Perl programmer, you'll find Perl Cookbook, 2nd Edition to be one of the most useful books on Perl available. Its comfortable discussion style and accurate attention to detail cover just about any topic you'd want to know about. You can get by without having this book in your library, but once you've tried a few of the recipes, you won't want to.

## Ivor Horton's Beginning Java 2 Razeware LLC

Improve your programming through a solid understanding of C pointers and memory management. With this practical book, you'll learn how pointers provide the mechanism to dynamically manipulate memory, enhance support for data structures, and enable access to hardware. Author Richard Reese shows you how to use pointers with arrays, strings, structures, and functions,

using memory models throughout the book. Difficult to master, pointers provide C with much flexibility and power—yet few resources are dedicated to this data type. This comprehensive book has the information you need, whether you're a beginner or an experienced C or C++ programmer or developer. Get an introduction to pointers, including the declaration of different pointer types Learn about dynamic memory allocation, de-allocation, and alternative memory management techniques Use techniques for passing or returning data to and from functions Understand the fundamental aspects of arrays as they relate to pointers Explore the basics of strings and how pointers are used to support them Examine why pointers can be the source of security problems, such as buffer overflow Learn several pointer techniques, such as the use of opaque pointers, bounded pointers and, the restrict keyword

**Speaking JavaScript** "O'Reilly Media, Inc."

This book makes JavaScript less challenging to learn for newcomers, by offering a modern view that is as consistent as possible. Highlights: Get started quickly, by initially focusing on modern features. Test-driven exercises and quizzes available for most chapters (sold separately). Covers all essential features of JavaScript, up to and including ES2019. Optional advanced sections let you dig deeper. No prior knowledge of JavaScript is required, but you should know how to program.

**Ruby Cookbook** John Wiley & Sons

The defacto standard - a must-have for all LISP programmers. In this greatly expanded edition of the defacto standard, you'll learn about the nearly 200 changes already made since original publication - and find out about gray areas likely to be revised later. Written by the Vice-Chairman of X3J13 (the ANSI committee responsible for the standardization of Common Lisp) and co-developer of the language itself, the new edition contains the entire text of the first edition plus six completely new chapters. They cover: - CLOS, the Common Lisp Object System, with new features to support function overloading and object-oriented programming, plus complete technical specifications \* Loops, a powerful control structure for multiple variables \* Conditions, a generalization of the error signaling mechanism \* Series and generators \* Plus other subjects not part of the ANSI standards but of interest to professional programmers. Throughout, you'll find fresh examples, additional clarifications, warnings, and tips - all presented with the author's customary vigor and wit.

**Kotlin Apprentice (Third Edition)** "O'Reilly Media, Inc."

What is this book about? This book is a comprehensive introduction to the Java programming language, updated thoroughly (more than 35% new and updated) for the latest SDK 1.5 release. This book shows readers how to build real-world Java applications using the Java SDK. No previous programming experience is required. The author uses numerous step-by-step programming examples to guide readers through the ins and outs of Java development. In addition to fully covering new features of SDK 1.5, such as generic types, the author has also added new chapters on Java database programming with JDBC and Java programming with XML.

**Electronically Scanned Arrays** "O'Reilly Media, Inc."

Learn How to Program with Swift 5.5! Swift is the easiest way to get started developing on Apple's platforms: iOS, iPadOS, macOS, watchOS and tvOS. In this book, you'll learn the basics of Swift from getting started with playgrounds to simple operations to building your own types. Everything you'll learn is platform-neutral; you'll have a firm understanding of Swift by the end of this book, and you'll be ready to move on to whichever app platform you're interested in. Who This Book Is For: This book is for complete beginners to Swift. No prior programming experience is

necessary! Topics Covered in The Swift Apprentice Playground basics: Learn about the coding environment where you can quickly and easily try out your code as you learn. Basic types: Numbers and strings are the basic kinds of data in any app - learn how to use them in Swift. Flow control: Your code doesn't always run straight through - learn how to use conditions and decide what to do. Functions: Group your code together into reusable chunks to run and pass around. Collection types: Discover the many ways Swift offers to store and organize data into collections. Protocols & protocol-oriented programming: Define protocols to make your code more interface-based and compositional. Advanced topics: Learn how to create custom operators, organize your code, write tests, manage memory, serialize your types, concurrency and so much more. After reading this book and completing your Swift apprenticeship by working through the included exercises and challenges, you'll be ready to take on app development on the platform of your choice!

**Programming F# 3.0** "O'Reilly Media, Inc."

Like it or not, JavaScript is everywhere these days—from browser to server to mobile—and now you, too, need to learn the language or dive deeper than you have. This concise book guides you into and through JavaScript, written by a veteran programmer who once found himself in the same position. Speaking JavaScript helps you approach the language with four standalone sections. First, a quick-start guide teaches you just enough of the language to help you be productive right away. More experienced JavaScript programmers will find a complete and easy-to-read reference that covers each language feature in depth. Complete contents include: JavaScript quick start: Familiar with object-oriented programming? This part helps you learn JavaScript quickly and properly. JavaScript in depth: Learn details of ECMAScript 5, from syntax, variables, functions, and object-oriented programming to regular expressions and JSON with lots of examples. Pick a topic and jump in. Background: Understand JavaScript's history and its relationship with other programming languages. Tips, tools, and libraries: Survey existing style guides, best practices, advanced techniques, module systems, package managers, build tools, and learning resources.

**Think Java** "O'Reilly Media, Inc."

Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

**Perl Cookbook** Apress

**JavaScript Cookbook** "O'Reilly Media, Inc."

**Part I** SAGE

**Programming Fundamentals - A Modular Structured Approach using C++** is written by Kenneth Leroy Busbee, a faculty member

at Houston Community College in Houston, Texas. The materials used in this textbook/collection were developed by the author and others as independent modules for publication within the Connexions environment. Programming fundamentals are often divided into three college courses: Modular/Structured, Object Oriented and Data Structures. This textbook/collection covers the rest of those three courses.

**Graphical Programming Made Easy and Fun** "O'Reilly Media, Inc."

Revised edition of: Introduction to Java programming / Y. Daniel Liang, Armstrong Atlantic State University. Tenth edition. Comprehensive version. 2015.

**A Comprehensive Guide for Writing Simple Code to Solve Complex Problems** Apress

**Mutual Coupling Between Antennas** A guide to mutual coupling between various types of antennas in arrays such as wires, apertures and microstrip patches or antennas co-sited on platforms Mutual Coupling Between Antennas explores the theoretical underpinnings of mutual coupling, offers an up-to-date description of the physical effects of mutual coupling for a variety of antennas, and contains techniques for analysing and assessing its effects. The book puts the topic in historical context, presents an integral equation approach, includes the current techniques, measurement methods, and discusses the most recent advances in the field. With contributions from noted experts on the topic, the book reviews practical aspects of mutual coupling and examines applications that clearly demonstrate where the performance is impacted both positively and negatively. Mutual Coupling Between Antennas contains information on how mutual coupling can be analysed with a wide range of methods from direct computer software using discrete methods, to integral equations and Greens function methods as well as approximate asymptotic methods. This important text: Provides a theoretical background for understanding mutual coupling between various types of antennas Describes the interaction that occurs between antennas, both planned and unplanned Explores a key aspect of arrays in any wireless, radar or sensing system operating at radio frequencies Offers a groundbreaking book on antenna mutual coupling Written for antenna engineers, technical specialists, researchers and students, Mutual Coupling Between Antennas is the first book to examine mutual coupling between various types of antennas including wires, horns, microstrip patches, MIMO antennas, co-sited antennas and arrays in planar or conformal configurations.

**Modern Programming Made Easy** "O'Reilly Media, Inc."

In recent years, the increased availability and fidelity of broadband seismic instruments have effectively narrowed the gap between exploration and global seismic applications. Global seismologists are now able to take advantage of high-resolution, often exploration-based, tools to examine rock properties tens to hundreds of kilometers below surface. This book reviews the key assumptions, algorithms and prospects of several important array-based methods in today's global and regional seismic surveys. A short list of topics includes data migration, PP and SS precursors, Radon transform, mantle triplication, P-to-S and S-to-P converted waves, shear-wave splitting, high-resolution seismic tomography, and ambient-noise interferometry. Each approach is presented in a 'cookbook' fashion for easy comparison, implementation and critique by the general readership.

"O'Reilly Media, Inc."

For beginning and intermediate LabVIEW programmers, this introductory guide assumes no prior knowledge of LabVIEW. There are in-depth examples in every chapter, and all the answers and source code is provided on the accompanying CD-ROM.

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