Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools)

Jeremy Kepner

Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools)

Jeremy Kepner

Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools)
Jeremy Kepner
This is the first book on parallel MATLAB and the first parallel computing book focused on the design, code, debug, and test techniques required to quickly produce well-performing parallel programs.

MATLAB is currently the dominant language of technical computing with one million users worldwide, many of whom can benefit from the increased power offered by inexpensive multicore and multinode parallel computers. MATLAB is an ideal environment for learning about parallel computing, allowing the user to focus on parallel algorithms instead of the details of implementation.

Parallel MATLAB for Multicore and Multinode Computers covers more parallel algorithms and parallel programming models than any other parallel programming book due to the succinctness of MATLAB. It presents a hands-on approach with numerous example programs; wherever possible, the examples are drawn from widely known and well-documented parallel benchmark codes that are representative of many real applications across the field of technical computing.

Audience: Intended for professional scientists and engineers, as well as undergraduate or graduate students, who use MATLAB. It is suitable as either the primary book in a parallel computing class or as a supplementary text in a numerical computing class or a computer science algorithms class.

Contents: List of Figures; List of Tables; List of Algorithms; Preface; Acknowledgments; Part I: Fundamentals: Chapter 1: Primer: Notation and Interfaces; Chapter 2: Introduction to pMatlab; Chapter 3: Interacting with Distributed Arrays; Part II: Advanced Techniques: Chapter 4: Parallel Programming Models; Chapter 5: Advanced Distributed Array Programming; Chapter 6: Performance Metrics and Software Architecture; Part III: Case Studies: Chapter 7: Parallel Application Analysis; Chapter 8: Stream; Chapter 9: RandomAccess; Chapter 10: Fast Fourier Transform; Chapter 11: High Performance Linpack; Appendix: Notation for Hierarchical Parallel Multicore Algorithms; Index

Download and Read Free Online Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) Jeremy Kepner

---

From reader reviews:

Thomas Abrams:

This Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) are usually reliable for you who want to certainly be a successful person, why. The reason why of this Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) can be among the great books you must have will be giving you more than just simple looking at food but feed you with information that perhaps will shock your preceding knowledge. This book is actually handy, you can bring it all over the place and whenever your conditions at e-book and printed people. Beside that this Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) forcing you to have an enormous of experience like rich vocabulary, giving you trial of critical thinking that we all know it useful in your day pastime. So , let's have it and luxuriate in reading.

Ruth McGrath:

This book untitled Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) to be one of several books that will best seller in this year, that is because when you read this reserve you can get a lot of benefit in it. You will easily to buy this kind of book in the book retail outlet or you can order it by way of online. The publisher with this book sells the e-book too. It makes you easier to read this book, as you can read this book in your Touch screen phone. So there is no reason for you to past this publication from your list.

Lamar Santiago:

This Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) is new way for you who has fascination to look for some information since it relief your hunger info. Getting deeper you onto it getting knowledge more you know or you who still having little bit of digest in reading this Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) can be the light food for you personally because the information inside this particular book is easy to get simply by anyone. These books build itself in the form which is reachable by anyone, that's why I mean in the e-book form. People who think that in guide form make them feel sleepy even dizzy this publication is the answer. So there is no in reading a publication especially this one. You can find actually looking for. It should be here for you. So , don't miss that! Just read this e-book type for your better life and also knowledge.

Carl Johnson:

Reading a e-book make you to get more knowledge from this. You can take knowledge and information coming from a book. Book is written or printed or created from each source this filled update of news. In this modern era like currently, many ways to get information are available for you. From media social including newspaper, magazines, science reserve, encyclopedia, reference book, book and comic. You can add your knowledge by that book. Isn't it time to spend your spare time to open your book? Or just seeking the

Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) when you required it?

Read Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) by Jeremy Kepner for online ebook

Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) by Jeremy Kepner Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) by Jeremy Kepner books to read online.

Online Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) by Jeremy Kepner ebook PDF download

Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) by Jeremy Kepner Doc

Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) by Jeremy Kepner Mobipocket

Parallel MATLAB for Multicore and Multinode Computers (Software, Environments and Tools) by Jeremy Kepner EPub