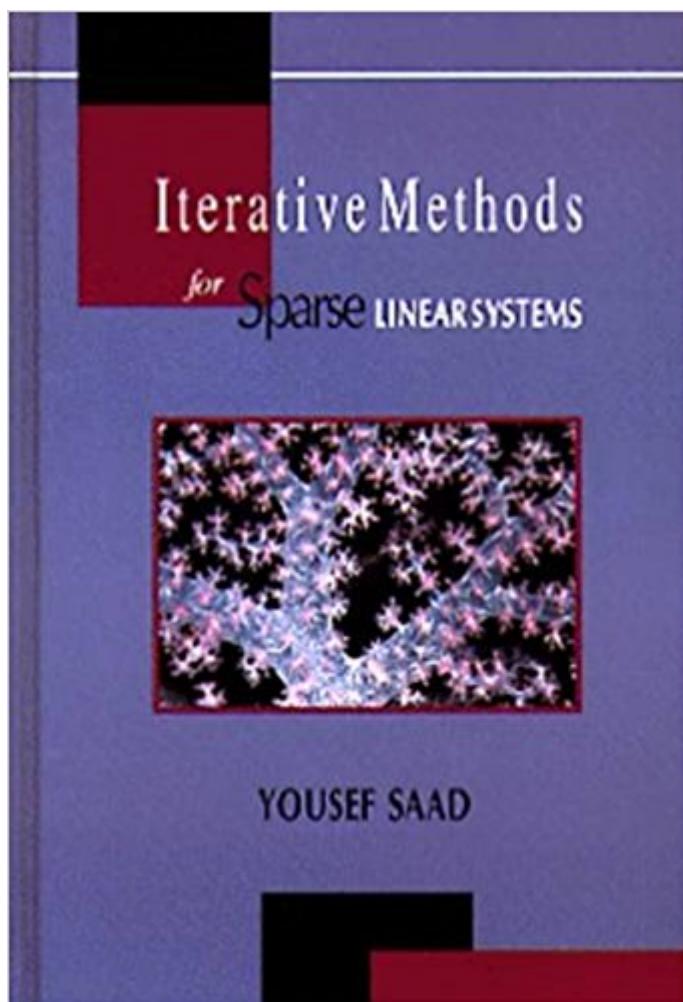


The book was found

Iterative Methods For Sparse Linear Systems (The Pws Series In Computer Science)



Synopsis

This text deals with advanced numerical methods applied to large and complex problems, primarily addressed in supercomputing.

Book Information

Series: The Pws Series in Computer Science

Hardcover: 447 pages

Publisher: Pws Pub Co (July 1996)

Language: English

ISBN-10: 053494776X

ISBN-13: 978-0534947767

Product Dimensions: 1 x 6.8 x 9.8 inches

Shipping Weight: 1.6 pounds

Average Customer Review: 5.0 out of 5 stars 7 customer reviews

Best Sellers Rank: #1,318,720 in Books (See Top 100 in Books) #77 in Books > Science & Math > Mathematics > Matrices #485 in Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Linear #3077 in Books > Textbooks > Science & Mathematics > Mathematics > Algebra & Trigonometry

Customer Reviews

Tremendous progress has been made in the scientific and engineering disciplines regarding the use of iterative methods for linear systems. This second edition gives an in-depth, up-to-date view of practical algorithms for solving large-scale linear systems of equations, including a wide range of the best methods available today. --This text refers to the Paperback edition.

Yousef Saad joined the University of Minnesota in 1990 as a Professor of Computer Science and a Fellow of the Minnesota Supercomputer Institute. He was head of the department of Computer Science and Engineering from 1997 to 2000. He received the "Doctorat d'Etat" from the University of Grenoble (France) in 1983. His current research interests include numerical linear algebra, sparse matrix computations, iterative methods, parallel computing, and numerical methods for eigenvalue problems. --This text refers to the Paperback edition.

The book is written by Y. Saad, famous in the field of applied mathematics for developing the GMRES solver along with Martin Schultz. Their seminal 80s paper is still widely cited today. That

being said, I think this book is one of the most accessible books in math. This book is really well written and says a lot about the author's ability to explain such hard topics to the newbie. As other reviewers mentioned, this book is already a masterpiece and it's an instant classic. The Krylov subspace and the preconditioning techniques chapters are a must read for any practitioner who solves ODEs and PDEs. The chapter on parallel techniques is another great introduction to a very difficult subject. It's one of the most valuable books in my collection, and career. I'd rather buy this book for over \$100 than buy many other books on the field of iterative solvers.

Fast shipping best quality

According to Google, this has been cited over 12,000 times as of February 2017. If you need to use this book, then you probably also know that 12,000 citations is the only review you need. :-) You can also get a PDF of this for free at the author's web site. Of course, some people prefer having a physical copy.

If you want to learn about iterative methods for solving linear equations, this should be the first book you buy. It will also serve as a great reference for the shelves. Very well written and organised.

This is a great book for this subject. The book is easy to follow and Saad does a wonderful job of illustrating with examples. This is a great textbook or a book for reference. This book does a particularly good job with Krylov methods and does a reasonable job with preconditioning.

This is one of my favorite books in my library on this subject. Also I have used this book for my class as main textbook along with "Iterative Methods for Solving Linear and Nonlinear Equations" by C. T. Kelley , which is another SIAM book. Highly recommended.

We used this book to prove a theorem in our studies that is directly related to my PhD thesis on spatial data mining and spatial statistics. This book is a master-piece. Thanks Dr. Saad.

[Download to continue reading...](#)

Iterative Methods for Sparse Linear Systems (The Pws Series in Computer Science) Iterative Methods for Sparse Linear Systems, Second Edition Direct Methods for Sparse Linear Systems (Fundamentals of Algorithms) Power Systems Analysis and Design, 2nd (Pws Series in Engineering) Mathematics and Computer Science in Medical Imaging (Nato a S I Series Series III,

Computer and Systems Sciences) Applied Electromagnetism (Pws Engineering Foundation) Extremal Combinatorics: With Applications in Computer Science (Texts in Theoretical Computer Science. An EATCS Series) 1st Grade Computer Basics : The Computer and Its Parts: Computers for Kids First Grade (Children's Computer Hardware Books) Sizzling Story Outlines: How to Outline Your Screenplay or Novel, Always Know âœWhat Happens Next,â • and Finish Your Rough Draft Without Freaking Out (Iterative Outlining Book 1) Graph Theory and Sparse Matrix Computation (The IMA Volumes in Mathematics and its Applications) Applying UML and Patterns: An Introduction to Object-Oriented Analysis and Design and Iterative Development (3rd Edition) Elementary Linear Programming with Applications, Second Edition (Computer Science & Scientific Computing Series) Computer Science for the Curious: Why Study Computer Science? (The Stuck Student's Guide to Picking the Best College Major and Career) Fundamentals of Discrete Math for Computer Science: A Problem-Solving Primer (Undergraduate Topics in Computer Science) Automation and Systems Issues in Air Traffic Control (Nato a S I Series Series III, Computer and Systems Sciences) Analog Methods for Computer-Aided Circuit Analysis and Diagnosis (Electrical and Computer Engineering) Linear Algebra With Applications (Jones and Bartlett Publishers Series in Mathematics. Linear) Coding the Matrix: Linear Algebra through Applications to Computer Science Coding the Matrix: Linear Algebra through Computer Science Applications Computer Forensics: Investigating File and Operating Systems, Wireless Networks, and Storage (CHFI), 2nd Edition (Computer Hacking Forensic Investigator)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)