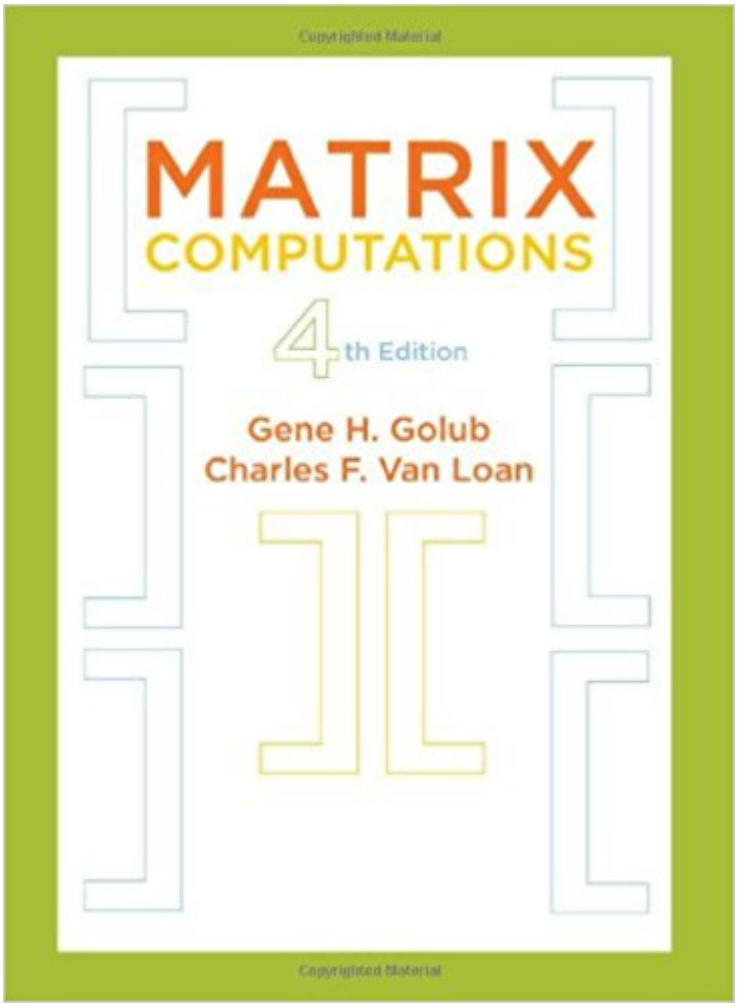
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Matrix Computations (Johns Hopkins Studies In The Mathematical Sciences)



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Synopsis

The fourth edition of Gene H. Golub and Charles F. Van Loan’s classic is an essential reference for computational scientists and engineers in addition to researchers in the numerical linear algebra community. Anyone whose work requires the solution to a matrix problem and an appreciation of its mathematical properties will find this book to be an indispensible tool. This revision is a cover-to-cover expansion and renovation of the third edition. It now includes an introduction to tensor computations and brand new sections on Ã¢â ¬Â¢ fast transformsÃ¢â ¬Â¢ parallel LUÃ¢â ¬Â¢ discrete Poisson solversÃ¢â ¬Â¢ pseudospectraÃ¢â ¬Â¢ structured linear equation problemsÃ¢â ¬Â¢ structured eigenvalue problemsÃ¢â ¬Â¢ large-scale SVD methodsÃ¢â ¬Â¢ polynomial eigenvalue problems Matrix Computations is packed with challenging problems, insightful derivations, and pointers to the literatureÃ¢â ¬â ¢everything needed to become a matrix-savvy developer of numerical methods and software.

Book Information

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"A mine of insight and information and a provocation to thought; the annotated bibliographies are helpful to those wishing to explore further. One could not ask for more, and the book should be considered a resounding success." (Bulletin of the Institute of Mathematics and Its Applications)

Great general book on Numerical Linear Algebra. Clear and very informative.

The classical book on matrix analysis. 4-th edition includes all the classical stuff and a lot of new topics; the illustrations are now provided as snipplets of MATLAB code. Must have for all people working in linear algebra, matrix and numerical analysis.

This book is very good, it provides comprehensive introduction and some codes that is convenient for begginners. I recommend it strongly.

This is a nice book. I like it. However, there are still very few typos in the book. wish they will be fixed when this book is re-published next time.

Good book to be read!

The book is new and it’s thicker than I expected. I have learned from the website that it’s a classical book about matrix analysis. I will start to study this book in the future. After studying this book, I will give my detailed review. Thanks.

For study Mathematical Sciences, the Matrix Computations (Johns Hopkins Studies in the Mathematical Sciences) is very good in the Mathematical Sciences.

This is now the best and most up-to-date textbook for numerical linear algebra at the graduate level, which I have been teaching for seven years. In the past, I always liked its third edition as a reference book, but hesitated to use it as a textbook, because it was difficult for students to study. The fourth edition reads much clearer, and I also like the new organization of the chapters very much. The fourth edition is much more friendly for self-study by matured students. I highly recommend it to students and practitioners who already have some basic understanding of linear algebra and would like to learn more about numerical algorithms in linear algebra for computational

sciences.A word of caution: This book is not meant to be an introduction to linear algebra for self-study or at the undergraduate level. There are good books specifically for that purpose, such as Linear Algebra and Its Applications by Gilbert Strang.

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