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*Wilkinson, Numerical Analysis, and Me - Nick Trefethen, May 29,  
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Numerical Linear Algebra, by Lloyd N. Trefethen and David Bau,

III, SIAM, 1997, ISBN 0-89871-361-7. Reference Book (not

required) Matrix Computations, 3rd edition, by Gene H. Golub and

Charles F. Van Loan, John Hopkins University Press, 1996, ISBN

0-8018-5414-8. Course Outline (back to top)

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~~AMS 526: Numerical Analysis I (Numerical Linear Algebra)~~  
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## ~~Numerical Linear Algebra by Lloyd N. Trefethen, David Bau ...~~

Numerical linear algebra, sometimes called applied linear algebra,  
is the study of how matrix operations can be used to create  
computer algorithms which efficiently and accurately provide  
approximate answers to questions in continuous mathematics. It is a

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subfield of numerical analysis, and a type of linear algebra. Computers use floating-point arithmetic and cannot exactly represent irrational data, so when a computer algorithm is applied to a matrix of data, it can sometimes increase the diffe

~~Numerical linear algebra — Wikipedia~~

NUMERICAL LINEAR ALGEBRA Lloyd N. Trefethen and David Bau, III xii+361 pages SIAM, 1997. David Bau (currently at Google) and I published a graduate textbook on numerical linear algebra in 1997. Our aims in this book are beauty, depth of insight, and brevity. The text is split into forty lectures, each about eight pages long.

~~Trefethen and Bau, NUMERICAL LINEAR ALGEBRA~~

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Computing a  $\kappa(A)$ ,  $\log(A)$ , and related matrix functions by contour integrals. Computing a  $\kappa(A)$ ,  $\log(A)$ , and related matrix functions by contour integrals Hale, N; Higham, N; Trefethen, L SIAM Journal on Numerical Analysis issue 5 volume 46 page 2505-2523 (10

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