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For example, if  $A$  is the matrix in (1.2.6), then  $1 A 2 * = ( 8 6 5 -9 )$  and  $A * 2 = 6 . 8$  For a linear system of equations  $a_{11} x_1 + a_{12} x_2 + \dots + a_{1n} x_n = b_1$ ,  $a_{21} x_1 + a_{22} x_2 + \dots + a_{2n} x_n = b_2$ , ...  $a_{m1} x_1 + a_{m2} x_2 + \dots + a_{mn} x_n = b_m$ , Gaussian elimination can be executed on the associated augmented matrix  $[A|b]$  by performing elementary operations to the rows of  $[A|b]$ .

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The book covers less mathematics than a typical text on applied linear algebra. We use only one theoretical concept from linear algebra, linear independence, and only one computational tool, the QR factorization; our approach to most applications relies on only one method, least squares (or some extension). In this sense *Matrix analysis and applied linear algebra - SILO.PUB*

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#### Matrix Analysis And Applied Linear

There are matrix computations that are sensitive to errors in the input. Consider the system of linear equations  $1 3 x_1 + 1 3 x_2 = 1$ ,  $1 3 x_1 + .3 x_2 = 0$ , which has the solution  $x_1 = -27$  and  $x_2 = 30$ . Suppose we make a small change in the second equation and change the coefficient from .3 to 1.3. The resulting linear system  $1 3 x_1 + 1 3 x_2 = 1$ ,  $1 3 x_1 +$  Society for Industrial and Applied

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'I like how well thought out and organized this book is. I would recommend that anyone who teaches a course in linear algebra consider this text. Those who choose not to adopt this text would still find it a handy reference a good reminder of some of the practical issues of linear algebra that working scientists must consider.

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Intended for a one-semester course, Applied Linear Algebra and Matrix Analysis places special emphasis on linear algebra as an experimental science, with numerous examples, computer exercises, and projects. While the flavor is heavily computational and experimental, the text is independent of specific hardware or software platforms.

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