

# Applied Numerical Analysis Using MATLAB

Laurene V Fausett

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Students and working professionals will find Numerical Analysis Using MATLAB® and Excel®, Third Edition, to be a concise and easy-to-learn text. It provides complete, clear, and detailed explanations of the principal numerical analysis methods and well known functions used in science and engineering. These are illustrated with many real-world examples. It is applied to a wide variety of disciplines such as business, all fields of engineering, computer science, education, geology, meteorology, and others. Years ago, high-speed computers did not exist, and if they did, the largest corporations could only afford them; consequently, the manual computation required lots of time and hard work. I was reading how to make use MATLAB to solve a linear equations. In this chapter, we deal with several numerical schemes for solving a system of equations.  $a_{11}x_1 + a_{12}x_2 + \dots + a_{1N}x_N = b_1$   $a_{21}x_1 + a_{22}x_2 + \dots + a_{2N}x_N = b_2$  . .  $a_{M1}x_1 + a_{M2}x_2 + \dots + a_{MN}x_N = b_M$ . which can be written in a compact form by using a matrix-vector notation as  $AX = b$   $m \times n$ . where  $A$  The keyword is pseudoinverse. In matlab the command `pinv`. You will get the solution closest to your problem. eg