Reference Texts

Introductory Linear Algebra

Freshman-Level Linear Algebra
**Applied Linear Algebra**


**Numerical Analysis**


**More Advanced**


**Specific Applications**

**Graphics**


**Linear Models in Statistics**


**Differential Equations and Other Physical Science Applications**


**Markov Chains**


**Growth Models and Recurrence Relations**


**Linear Programming**


**General Applications**


For more references, see *A Basic Library List*, published by the Mathematical Association of America, Washington, D.C., 1988.

**Matrix Algebra Software**

**General-Purpose Computer Languages and Computation Packages with Basic Matrix Operations**


MACSYMA, Symbolics, Inc.

MAPLE, University of Waterloo.


muMATH (for IBM PC, Apple), The Soft Warehouse (Microsoft).

TRUE BASIC and other versions of the language BASIC that have matrix operations built-in; for example, MATRIX 100, an enhanced BASIC for IBM PCs from Stanford Business Software.

**Matrix Computation Packages**

GAUSS (IBM PC), Applied Technical Systems.

Linear Algebra Computer Companion (Apple), Allyn and Bacon, Boston.

LIN*KIT (for IBM PC and Apple), Wiley, New York.
MAC (Matrix Algebra Calculator) (IBM PC, Rainbow), Professor E. Herman, Mathematics Department, Grinnell College, Grinnell, Iowa.
Matrix Calculator (Apple), CONDUIT.
MATRIX (IBM PC, Apple, Macintosh), Decision Science Software.
PC-MATLAB (for IBM PC), The Math Works, Portola Valley, Calif.
The following two packages, designed for larger computers, are the best matrix computation software in existence. PC-MATLAB and MAC use parts of these packages.