

Examples of Additional Topics

Complex vector spaces

Gram-Schmidt process

Orthogonal Matrices

LU factorization

QR factorization

Markov Chains

Principal Component Analysis

Least Squares Approximation

Distance between points, lines, and planes

Matrix Block Multiplication

Cramer's Rule

Iterative Methods

Singular Value Decomposition

Cayley-Hamilton Theorem

Jordan Canonical Form and Rational Canonical Form

Linear Differential Equations as the kernel of a linear transformation