A First Course in Linear Algebra

Daniel Zelinsky

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A First Course in Linear Algebra provides an introduction to the algebra and geometry of vectors, matrices, and linear transformations.

This book is designed as a background for second-year courses in calculus of several variables and differential equations where the theory of linear differential equations parallels that of linear algebraic equations. The topics discussed include the multiplication of vectors by scalars, vectors in n-space, planes and lines, and composites of linear mappings. The symmetric matrices and mappings, quadratic forms, change of coordinates, and effect of change of basis on matrices of linear functions are also described. This text likewise considers the computation of determinants, diagonalizable transformations, computation of eigenvalues and eigenvectors, and principal axis theorem.

This publication is suitable for college students taking a course in linear algebra.

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