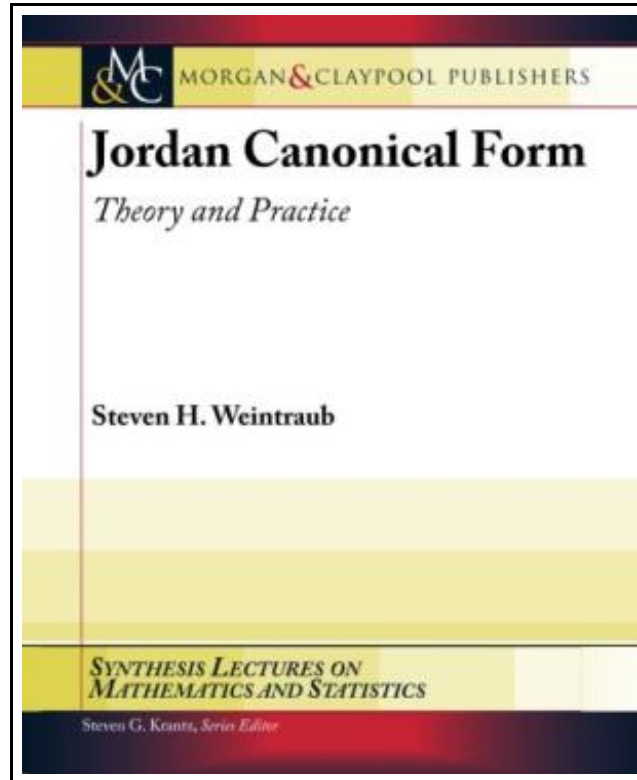# Jordan Canonical Form: Theory and Practice

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Reviews

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(Clint Sporer)

JORDAN CANONICAL FORM: THEORY AND PRACTICE

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Morgan & Claypool. Paperback. Book Condition: New. Paperback. 108 pages. Dimensions: 9.2in. x 7.3in. x 0.3in.Jordan Canonical Form (JCF) is one of the most important, and useful, concepts in linear algebra. The JCF of a linear transformation, or of a matrix, encodes all of the structural information about that linear transformation, or matrix. This book is a careful development of JCF. After beginning with background material, we introduce Jordan Canonical Form and related notions: eigenvalues, (generalized) eigenvectors, and the characteristic and minimum polynomials. We decide the question of diagonalizability, and prove the Cayley-Hamilton theorem. Then we present a careful and complete proof of the fundamental theorem: Let V be a finite-dimensional vector space over the field of complex numbers C, and let T : V - V be a linear transformation. Then T has a Jordan Canonical Form. This theorem has an equivalent statement in terms of matrices: Let A be a square matrix with complex entries. Then A is similar to a matrix J in Jordan Canonical Form, i. e. , there is an invertible matrix P and a matrix J in Jordan Canonical Form with A PJP-1. We further present an algorithm to find P and J, assuming that one can factor the characteristic polynomial of A. In developing this algorithm we introduce the eigenstructure picture (ESP) of a matrix, a pictorial representation that makes JCF clear. The ESP of A determines J, and a refinement, the labeled eigenstructure picture (lESP) of A, determines P as well. We illustrate this algorithm with copious examples, and provide numerous exercises for the reader. Table of Contents: Fundamentals on Vector Spaces and Linear Transformations The Structure of a Linear Transformation An Algorithm for Jordan Canonical Form and Jordan Basis This item ships from multiple locations. Your book may arrive from Roseburg,OR,...

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