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Preface This text is intended for a one- or two-semester undergraduate course in abstract algebra. Traditionally, these courses have covered the theoretical

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Theory and Applications of Categories

Chapter 1 Introduction 1.1 Rationale Information about geometric algebra is widely available in the field of physics. Knowledge applicable to computer science, graphics in particular, is lacking.

Jaap Suter March 12, 2003

REDUCE User's Manual Version 3.8 Anthony C. Hearn Santa Monica, CA, USA Email: reduce@rand.org
February 2004

REDUCE User's Manual - REDUCE Computer Algebra System

This note covers the following topics: Linear Algebra, Matrix Algebra, Homogeneous Systems and Vector Subspaces, Basic Notions, Determinants and Eigenvalues, Diagonalization, The Exponential of a Matrix, Applications, Real Symmetric Matrices, Classification of Conics and Quadrics, Conics and the Method of Lagrange Multipliers, Normal Modes.

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Talk slides not corresponding to papers (mostly expository): The diamond lemma and its applications (May 2018, Student Combinatorics Seminar, UMN Minneapolis). Sourcecode. This is an exposition of Newman's diamond lemma, with (an outline of a) constructive proof and a few applications (including a glimpse at Gröbner bases).

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