Coding
the Matrix

Linear Algebra
through Applications to Computer Science

Edition 1

PHILIP N. KLEIN

Brown University

[Coding Matrix Algebra Applications Computer](#)

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Coding Matrix Algebra Applications Computer:

Coding the Matrix Philip N. Klein,2013 An engaging introduction to vectors and matrices and the algorithms that operate on them intended for the student who knows how to program Mathematical concepts and computational problems are motivated by applications in computer science The reader learns by doing writing programs to implement the mathematical concepts and using them to carry out tasks and explore the applications Examples include error correcting codes transformations in graphics face detection encryption and secret sharing integer factoring removing perspective from an image PageRank Google s ranking algorithm and cancer detection from cell features A companion web site codingthematrix com provides data and support code Most of the assignments can be auto graded online Over two hundred illustrations including a selection of relevant xkcd comics Chapters The Function The Field The Vector The Vector Space The Matrix The Basis Dimension Gaussian Elimination The Inner Product Special Bases The Singular Value Decomposition The Eigenvector The Linear Program   *Coding the Matrix* Joel A. Cooper,2015-08-10 Thought provoking and accessible in approach this updated and expanded second edition of the Coding the Matrix Linear Algebra through Computer Science Applications provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for advanced graduate level students We hope you find this book useful in shaping your future career Feel free to send us your enquiries related to our publications to info risepress pw Rise Press   **Computers and Data Processing Systems** ,1962   Scientific and Technical Aerospace Reports ,1968   **A Directory of Computer Software Applications** ,1979   Technical Abstract Bulletin Defense Documentation Center (U.S.),1964   U.S. Government Research Reports ,1963   **A Directory of Computer Software Applications, Physics, 1970-May 1978** United States. National Technical Information Service,1978   **A Directory of Computer Software Applications** United States. National Technical Information Service,1978   **Government Reports Announcements** ,1973   **College Mathematics for Business** Elizabeth Bliss,1989   A Directory of Computer Software Applications--electrical and Electronics Engineering, 1970-Sept. 1978 United States. National Technical Information Service,1978   **Tech Notes** ,1985   **Bibliography of Scientific and Industrial Reports** ,1965-07   **A Directory of Computer Software Applications, Electrical & Electronics Engineering** United States. National Technical Information Service,1978   Who's who in Technology Today ,1980   Bibliography of Scientific and Industrial Reports ,1963-05   Current Index to Statistics, Applications, Methods and Theory ,1998 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields   **IEEE Transactions on Electronic Computers** ,1965   **Petroleum Abstracts** ,1992

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