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that they have a cohort
that need the prerequisite
skills built into the
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**From the Beginnings to the
Jordan Normal Forms
Precalculus**

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Finite Mathematics

Linear Algebra For Dummies

The purpose of this book is to explain linear algebra clearly for beginners. In doing so, the author states and

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explains somewhat advanced topics such as Hermitian products and Jordan normal forms. Starting from the definition of matrices, it is made clear with examples that matrices and

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*matrix operation are
abstractions of tables and
operations of tables. The
author also maintains that
systems of linear
equations are the starting
point of linear algebra,*

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and linear algebra and linear equations are closely connected. The solutions to systems of linear equations are found by solving matrix equations in the row-

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*reduction of matrices,
equivalent to the Gauss
elimination method of
solving systems of linear
equations. The row-
reductions play important
roles in calculation in*

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*this book. To calculate
row-reductions of
matrices, the matrices are
arranged vertically, which
is seldom seen but is
convenient for
calculation. Regular*

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*matrices and determinants
of matrices are defined
and explained.*

*Furthermore, the
resultants of polynomials
are discussed as an
application of*

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*determinants. Next,
abstract vector spaces
over a field K are
defined. In the book,
however, mainly vector
spaces are considered over
the real number field and*

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*the complex number field,
in case readers are not
familiar with abstract
fields. Linear mappings
and linear transformations
of vector spaces and
representation matrices of*

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linear mappings are defined, and the characteristic polynomials and minimal polynomials are explained. The diagonalizations of linear transformations and square

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*matrices are discussed,
and inner products are
defined on vector spaces
over the real number
field. Real symmetric
matrices are considered as
well, with discussion of*

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*quadratic forms. Next,
there are definitions of
Hermitian inner products.
Hermitian transformations,
unitary transformations,
normal transformations and
the spectral resolution of*

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normal transformations and matrices are explained.

The book ends with Jordan normal forms. It is shown that any transformations of vector spaces over the complex number field have

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matrices of Jordan normal forms as representation matrices.

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*Gilbert, Professor,
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Barbara. Computational
scientists often encounter
problems requiring the*

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*solution of sparse systems
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*Attacking these problems
efficiently requires an in-
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*linear systems; Chapter 9:
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A text surveying perturbation techniques and sensitivity analysis of linear systems

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is an ambitious undertaking, considering the lack of basic comprehensive texts on the subject. A wide-ranging and global coverage of the topic is as yet missing, despite the existence of numerous monographs dealing with specific topics but generally of use to only a narrow

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category of people. In fact, most works approach this subject from the numerical analysis point of view. Indeed, researchers in this field have been most concerned with this topic, although engineers and scholars in all fields may find it equally interesting. One can state,

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without great exaggeration, that a great deal of engineering work is devoted to testing systems' sensitivity to changes in design parameters. As a rule, high-sensitivity elements are those which should be designed with utmost care. On the other hand, as the mathematical

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modelling serving for the design process is usually idealized and often inaccurately formulated, some unforeseen alterations may cause the system to behave in a slightly different manner. Sensitivity analysis can help the engineer innovate ways to minimize such

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*system discrepancy, since it starts from
the assumption of such a discrepancy
between the ideal and the actual system.*

*Direct Methods for Sparse Linear
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electric circuits and vibratory motion. The final section discusses Taylor's theorem, sequences, and series. The book is intended for sophomore college students of advanced calculus.

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Systems of simultaneous linear equations arise frequently in mathematics and in many other areas. This unit begins by considering simultaneous linear equations in two and three unknowns, introduces the idea of a solution set, and interprets the results geometrically. The method of

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Gauss-Jordan elimination is introduced and a strategy for solving systems of linear equations, based on performing elementary row operations on the augmented matrix of a system, is developed. The algebra of matrices is studied and the inverse of a matrix introduced. One subsection is intended to

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