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*Linear Algebra
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trust Anton. The
tenth edition
presents the key
concepts and topics**

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**along with engaging
and contemporary
applications. The
chapters have been
reorganized to bring
up some of the more
abstract topics and
make the material
more accessible.
More theoretical
exercises at all
levels of difficulty
are integrated
throughout the**

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**pages, including
true/false questions
that address
conceptual ideas.
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provide a fuller
explanation when
new methods and
complex logical
steps are included
in proofs. Small-
scale applications
also show how
concepts are**

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**applied to help
engineers develop
their mathematical
reasoning.**

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ed., by Friedberg,
Insel, and Spence is
one of the world's
best textbooks on
the subject of finite-
dimensional linear
analysis. This book
offers 266 solutions
to problems from**

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chapters 1-7.

**Specifically, there
are 27 solutions to
problems in chapter
1; 64 solutions to
problems in chapter
2; 17 solutions to
problems in chapter
3; 16 solutions to
problems in chapter
4; 44 solutions to
problems in chapter
5; 50 solutions to
problems in chapter**

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**6; and 8 solutions to
problems in chapter
7.**

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a first course in
linear algebra and is
intended for
undergraduate
courses in
mathematics. It
focusses
throughout on**

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**geometric
explanations to
make the student
perceive that linear
algebra is nothing
but analytic
geometry of n
dimensions. From
the very start, linear
algebra is presented
as an extension of
the theory of
simultaneous linear
equations and their**

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geometric interpretation is shown to be a recurring theme of the subject. The integration of abstract algebraic concepts with the underlying geometric notions is one of the most distinguishing features of this book — designed to help

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**students in the
pursuit of
multivariable
calculus and
differential geometry
in subsequent courses. Explanations and
concepts are
logically presented
in a conversational
tone and well-
constructed writing
style so that
students at a variety**

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**of levels can
understand the
material and acquire
a solid foundation in
the basic skills of
linear algebra.
This text for a
second course in
linear algebra,
aimed at math
majors and
graduates, adopts a
novel approach by
banishing**

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determinants to the end of the book and focusing on understanding the structure of linear operators on vector spaces. The author has taken unusual care to motivate concepts and to simplify proofs. For example, the book presents - without having defined

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**determinants - a
clean proof that
every linear operator
on a finite-
dimensional
complex vector
space has an
eigenvalue. The
book starts by
discussing vector
spaces, linear
independence, span,
basics, and
dimension. Students**

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are introduced to inner-product spaces in the first half of the book and shortly thereafter to the finite-dimensional spectral theorem. A variety of interesting exercises in each chapter helps students understand and manipulate the objects of linear

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**algebra. This
second edition
features new
chapters on
diagonal matrices,
on linear functionals
and adjoints, and on
the spectral
theorem; some
sections, such as
those on self-adjoint
and normal
operators, have
been entirely**

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rewritten; and

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improvements have
been made

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and the maps
between them that
preserve their
structure (linear
transformations). It
starts with familiar
concepts and then***

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*slowly builds to
deeper results.*

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including many
exercises and
examples, each
section reviews
what students
need to know
before studying
the material. The
book first
introduces vector*

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***spaces over fields
as well as the
fundamental
concepts of linear
combinations,
span of vectors,
linear
independence,
basis, and
dimension. After
covering linear
transformations, it
discusses the***

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***algebra of
polynomials with
coefficients in a
field,
concentrating on
results that are
consequences of
the division
algorithm. The
author then
develops the
whole structure
theory of a linear***

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operator on a finite dimensional vector space from a collection of some simple results. He also explores the entire range of topics associated with inner product spaces, from the Gram–Schmidt process to the spectral theorems

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for normal and self-adjoint operators on an inner product space. The text goes on to rigorously describe the trace and determinant of linear operators and square matrices. The final two chapters focus on bilinear forms

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also prepares***

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traditional linear

algebra texts, the

course is relatively

easy for students

during the early

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stages as material is presented in a familiar, concrete setting. However, when abstract concepts are introduced, students often hit a wall. Instructors seem to agree that certain concepts (such as linear independence,

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***spanning,
subspace, vector
space, and linear
transformations)
are not easily
understood and
require time to
assimilate. These
concepts are
fundamental to the
study of linear
algebra, so
students'***

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*understanding of
them is vital to
mastering the
subject. This text
makes these
concepts more
accessible by
introducing them
early in a familiar,
concrete " R^n "
setting, developing
them gradually,
and returning to*

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*them throughout
the text so that
when they are
discussed in the
abstract, students
are readily able to
understand.*

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Second Edition
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introduces the
concepts of linear
algebra through the
careful study of two
and three-
dimensional
Euclidean
geometry. This
approach makes it
possible to start
with vectors, linear
transformations,

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Type
and matrices in the
context of familiar
plane geometry
and to move
directly to topics
such as dot
products,
determinants,
eigenvalues, and
quadratic forms.
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deal with n -

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concepts are
introduced,
students often hit a
wall. Instructors
seem to agree that
certain concepts
(such as linear
independence,
spanning,
subspace, vector
space, and linear
transformations)

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are not easily
understood and
require time to
assimilate. These
concepts are
fundamental to the
study of linear
algebra, so
students'
understanding of
them is vital to
mastering the

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subject. This text
makes these
concepts more
accessible by
introducing them
early in a familiar,
concrete " \mathbb{R}^n "
setting, developing
them gradually,
and returning to
them throughout
the text so that

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when they are
discussed in the
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concepts and write
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student make the
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algebra. It is also
assumed that the
reader has had
calculus. Some
optional topics***

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***require more
analysis than this,
however. I think
that the subject of
linear algebra is
likely the most
significant topic
discussed in
undergraduate
mathematics
courses. Part of
the reason for this
is its usefulness in***

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*unifying so many
different topics.*

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essential in
analysis, applied
math, and even in
theoretical
mathematics. This
is the point of view
of this book, more
than a
presentation of
linear algebra for*

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***its own sake. This
is why there are
numerous
applications, some
fairly unusual.
This book uses
elementary
versions of
modern methods
found in
sophisticated
mathematics to
discuss portions***

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***of "advanced
calculus" in which
the subtlety of the
concepts and
methods makes
rigor difficult to
attain at an
elementary level.
Renowned
professor and
author Gilbert
Strang
demonstrates that***

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linear algebra is a fascinating subject by showing both its beauty and value. While the mathematics is there, the effort is not all concentrated on proofs. Strang's emphasis is on understanding. He explains concepts,

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rather than deduces. This book is written in an informal and personal style and teaches real mathematics. The gears change in Chapter 2 as students reach the introduction of vector spaces. Throughout the

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***book, the theory is
motivated and
reinforced by
genuine
applications,
allowing pure
mathematicians to
teach applied
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the Sciences**

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equations,
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linear operator,
bilinear and
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Euclidean
spaces, unitary
spaces,
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Gilbert Strang's
textbooks have
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explains this
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course. In the
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Lang discusses
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between the
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underlying the
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exercises, some
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techniques, vectors and
vector geometry are
introduced early to help

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students visualize
concepts and develop
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