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Solution
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Topology
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Willard

***A text for a
first graduate
course in real***

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***analysis for
students in
pure and
applied
mathematics,
statistics,
education,
engineering,
and economics.
This is part
one of a two-
volume book on***

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***real analysis
and is
intended for
senior
undergraduate
students of
mathematics
who have
already been
exposed to
calculus. The
emphasis is on***

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*rigour and
foundations of
analysis.
Beginning with
the
construction
of the number
systems and
set theory,
the book
discusses the
basics of*

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***analysis
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series,
continuity, di
fferentiation,
Riemann
integration),
through to
power series,
several
variable
calculus and***

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***Fourier
analysis, and
then finally
the Lebesgue
integral.
These are
almost
entirely set
in the
concrete
setting of the
real line and***

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***Euclidean
spaces,
although there
is some
material on
abstract
metric and
topological
spaces. The
book also has
appendices on
mathematical***

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**logic and the
decimal
system. The
entire text
(omitting some
less central
topics) can be
taught in two
quarters of
25–30 lectures
each. The
course**

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***material is
deeply
intertwined
with the
exercises, as
it is intended
that the
student
actively learn
the material
(and practice
thinking and***

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*writing
rigorously) by
proving
several of the
key results in
the theory.
Learn the
basics of
point-set
topology with
the
understanding*

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*of its real-
world*

*application to
a variety of
other subjects
including
science,
economics,
engineering,
and other
areas of
mathematics.*

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***Introduces
topology as an
important and
fascinating
mathematics
discipline to
retain the
readers
interest in
the subject.
Is written in
an accessible***

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***way for
readers to
understand the
usefulness and
importance of
the
application of
topology to
other fields.
Introduces
topology
concepts***

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***combined with
their real-
world
application to
subjects such
DNA, heart
stimulation,
population
modeling,
cosmology, and
computer
graphics.***

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Covers topics including knot theory, degree theory, dynamical systems and chaos, graph theory, metric spaces, connectedness, and compactness. A

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reference for
readers
wanting an
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highly connected
world with
multiple self-
interested agents

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**interacting and
myriad
opportunities for
conflict and
cooperation. The
goal of game
theory is to
understand these
opportunities.
This book
presents a
rigorous**

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**introduction to
the mathematics
of game theory
without losing
sight of the joy of
the subject. This
is done by
focusing on
theoretical
highlights (e.g., at
least six Nobel
Prize winning**

**results are
developed from
scratch) and by
presenting
exciting
connections of
game theory to
other fields such
as computer
science
(algorithmic
game theory),**

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**economics
(auctions and
matching
markets), social
choice (voting
theory), biology
(signaling and
evolutionary
stability), and
learning theory.
Both classical
topics, such as**

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**zero-sum games,
and modern
topics, such as
sponsored
search auctions,
are covered.
Along the way,
beautiful
mathematical
tools used in
game theory are
introduced,**

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**including
convexity, fixed-
point theorems,
and probabilistic
arguments. The
book is
appropriate for a
first course in
game theory at
either the
undergraduate or
graduate level,**

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**whether in
mathematics,
economics,
computer
science, or
statistics. The
importance of
game-theoretic
thinking
transcends the
academic
setting—for**

**every action we
take, we must
consider not only
its direct effects,
but also how it
influences the
incentives of
others.**

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Rigorous
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analysis. Along
with the basic
material, the text
covers Riemann-
Stieltjes
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**foundation in
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analysis and its
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for further
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analysis,**

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analysis, and
beyond.**

**The book offers a
good
introduction to
topology through
solved exercises.
It is mainly
intended for
undergraduate
students. Most**

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**exercises are
given with
detailed
solutions. In the
second edition,
some significant
changes have
been made, other
than the
additional
exercises. There
are also**

**additional proofs
(as exercises) of
many results in
the old section
"What You Need
To Know", which
has been
improved and
renamed in the
new edition as
"Essential
Background".**

**Indeed, it has
been
considerably
beefed up as it
now includes
more remarks
and results for
readers'
convenience. The
interesting
sections "True or
False" and**

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**"Tests" have
remained as they
were, apart from
a very few
changes.**

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of a real variable.
The aim is to challenge and improve mathematical intuition rather than to verify it. The philosophy of this book is to focus attention on questions which give analysis its inherent

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stressing design
over analysis. The
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accessible
instruction on
methods for
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Based on a highly regarded lecture course at Moscow State University, this is a clear and systematic introduction to gauge field theory. It is unique in providing the means to master gauge field theory prior to the advanced study of quantum

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mechanics. Though gauge field theory is typically included in courses on quantum field theory, many of its ideas and results can be understood at the classical or semi-classical level.

Accordingly, this book is organized so that its early chapters require no special knowledge of

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quantum mechanics.

Aspects of gauge

field theory relying

on quantum

mechanics are

introduced only later

and in a graduated

fashion--making the

text ideal for

students studying

gauge field theory

and quantum

mechanics

simultaneously. The

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book begins with the basic concepts on which gauge field theory is built. It introduces gauge-invariant Lagrangians and describes the spectra of linear perturbations, including perturbations above nontrivial ground states. The second part focuses on the

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construction and interpretation of classical solutions that exist entirely due to the nonlinearity of field equations: solitons, bounces, instantons, and sphalerons. The third section considers some of the interesting effects that appear due to interactions of

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*fermions with
topological scalar and
gauge fields.*

*Mathematical
digressions and
numerous problems
are included
throughout. An
appendix sketches
the role of instantons
as saddle points of
Euclidean functional
integral and related
topics. Perfectly*

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*suited as an
advanced
undergraduate or
beginning graduate
text, this book is an
excellent starting
point for anyone
seeking to
understand gauge
fields.*

*This text contains a
detailed introduction
to general topology
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to algebraic topology via its most classical and elementary segment. Proofs of theorems are separated from their formulations and are gathered at the end of each chapter, making this book appear like a problem book and also giving it appeal to the expert as a

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*design, and protein
folding. This coherent*

and comprehensive

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from several sources,

including robotics,

control theory,

artificial intelligence,

and algorithms. The

treatment is centered

on robot motion

planning, but

integrates material

on planning in

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discrete spaces. A major part of the book is devoted to planning under uncertainty, including decision theory, Markov decision processes, and information spaces, which are the 'configuration spaces' of all sensor-based planning problems. The last part of the

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*book delves into
planning under
differential
constraints that arise
when automating the
motions of virtually
any mechanical
system. This text and
reference is intended
for students,
engineers, and
researchers in
robotics, artificial
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*control theory as well
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also show students the fundamental concepts and the difference between important results and minor technical routines. Altogether, the text presents a coherent high school curriculum for the geometry course, naturally backed by

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numerous
examples and
exercises.

Education is an
admirable thing,
but it is well to
remember from
time to time that
nothing worth
knowing can be
taught. Oscar
Wilde, "The Critic
as Artist," 1890.

Analysis is a

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profound subject; it is neither easy to understand nor summarize.

However, Real Analysis can be discovered by solving problems. This book aims to give independent students the opportunity to discover Real Analysis by

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themselves
through problem
solving. The depth and
complexity of the theory
of Analysis can be
appreciated by taking
a glimpse at its
developmental
history. Although
Analysis was
conceived in the
17th century
during the
Scientific

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Revolution, it has taken nearly two hundred years to establish its theoretical basis. Kepler, Galileo, Descartes, Fermat, Newton and Leibniz were among those who contributed to its genesis. Deep conceptual changes in Analysis were brought

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about in the 19th century by Cauchy and Weierstrass. Furthermore, modern concepts such as open and closed sets were introduced in the 1900s. Today nearly every undergraduate mathematics program requires at least one

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semester of Real Analysis. Often, students consider this course to be the most challenging or even intimidating of all their mathematics major requirements. The primary goal of this book is to alleviate those concerns by systematically

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solving the problems related to the core concepts of most analysis courses. In doing so, we hope that learning analysis becomes less taxing and thereby more satisfying.

Iterative Methods
for Sparse Linear
Systems

Analysis I

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and illuminating
explanations,
excellent diagrams
and exemplary
motivation; Includes
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analysis and
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