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**With many updates  
and additional  
exercises, the  
second edition of  
this book continues  
to provide readers  
with a gentle**

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**introduction to  
rough path analysis  
and regularity  
structures, theories  
that have yielded  
many new insights  
into the analysis of  
stochastic  
differential  
equations, and,  
most recently,  
stochastic partial  
differential  
equations. Rough**

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**path analysis  
provides the means  
for constructing a  
pathwise solution  
theory for  
stochastic  
differential  
equations which, in  
many respects,  
behaves like the  
theory of  
deterministic  
differential  
equations and**

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**permits a clean  
break between  
analytical and  
probabilistic  
arguments.**

**Together with the  
theory of regularity  
structures, it forms  
a robust toolbox,  
allowing the  
recovery of many  
classical results  
without having to  
rely on specific**

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**probabilistic properties such as adaptedness or the martingale property. Essentially self-contained, this textbook puts the emphasis on ideas and short arguments, rather than aiming for the strongest possible statements. A typical reader will**

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**have been exposed  
to upper  
undergraduate  
analysis and  
probability courses,  
with little more than  
Itô-integration  
against Brownian  
motion required for  
most of the text.  
From the reviews of  
the first edition:  
"Can easily be used  
as a support for a**

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graduate course ...  
Presents in an

accessible way the  
unique point of view  
of two experts who  
themselves have  
largely contributed  
to the theory" -

Fabrice Baudouin in  
the Mathematical  
Reviews "It is easy  
to base a graduate  
course on rough  
paths on this ... A

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researcher who  
carefully works her

way through all of  
the exercises will  
have a very good  
impression of the  
current state of the  
art" - Nicolas

Perkowski in

Zentralblatt MATH

The Heat Equation

The text begins with  
a review of group  
actions and Sylow



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**theory. It includes  
semidirect**

**products, the Schur-  
Zassenhaus**

**theorem, the theory  
of commutators,**

**coprime actions on  
groups, transfer**

**theory, Frobenius  
groups, primitive**

**and multiply  
transitive**

**permutation groups,  
the simplicity of the**

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**PSL groups, the  
generalized Fitting  
subgroup and also  
Thompson's J-  
subgroup and his  
normal  
 $p$ -complement  
theorem. Topics  
that seldom (or  
never) appear in  
books are also  
covered. These  
include  
subnormality theory,**

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**a group-theoretic  
proof of Burnside's  
theorem about  
groups with order  
divisible by just two  
primes, the Wielandt  
automorphism  
tower theorem,  
Yoshida's transfer  
theorem, the  
"principal ideal  
theorem" of transfer  
theory and many  
smaller results that**

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are not very well  
known. Proofs often

contain original  
ideas, and they are  
given in complete  
detail. In many  
cases they are  
simpler than can be  
found elsewhere.

The book is largely  
based on the  
author's lectures,  
and consequently,  
the style is friendly

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and somewhat informal. Finally, the book includes a large collection of problems at disparate levels of difficulty. These should enable students to practice group theory and not just read about it. Martin Isaacs is professor of mathematics at the

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**University of  
Wisconsin,  
Madison. Over the  
years, he has  
received many  
teaching awards  
and is well known  
for his inspiring  
teaching and  
lecturing. He  
received the  
University of  
Wisconsin  
Distinguished**

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**Teaching Award in  
1985, the Benjamin  
Smith Reynolds  
Teaching Award in  
1989, and the  
Wisconsin Section  
MAA Teaching  
Award in 1993, to  
name only a few. He  
was also honored  
by being the  
selected MAA Polya  
Lecturer in  
2003-2005.**

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Cosmology and  
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Representations  
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Control in Infinite  
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A Course on Rough  
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figures.

From the abstract,  
axiomatic point of  
view that prevails  
today, one can argue  
that group theory is, in  
some sense, more  
primitive than most  
other parts of algebra  
and, indeed, the group  
axioms constitute a

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subset of the axiom systems that define the other algebraic objects considered in this book. The subject we call 'algebra' was not born abstract. In its youth, algebra was the study of concrete objects such as polynomials, rather than of things defined by axiom systems.

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operator, many differential equations arising from differential geometry are nonlinear. A particularly important example is the Monge-Ampère equation. Applications to geometric problems have also motivated new methods and techniques in

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differential equations.  
The field of geometric  
analysis is broad and  
has had many striking  
applications. This  
handbook of  
geometric  
analysis—the first of  
the two to be  
published in the ALM  
series—presents  
introductions and  
survey papers treating

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important topics in geometric analysis, with their applications to related fields. It can be used as a reference by graduate students and by researchers in related areas.

Algebra: Chapter 0 is a self-contained introduction to the main topics of algebra, suitable for a first

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sequence on the subject at the beginning graduate or upper undergraduate level. The primary distinguishing feature of the book, compared to standard textbooks in algebra, is the early introduction of categories, used as a unifying theme in the presentation of the



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main topics. A second feature consists of an emphasis on homological algebra: basic notions on complexes are presented as soon as modules have been introduced, and an extensive last chapter on homological algebra can form the basis for a follow-up

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introductory course on  
the subject.

Approximately 1,000  
exercises both provide  
adequate practice to  
consolidate the  
understanding of the  
main body of the text  
and offer the  
opportunity to explore  
many other topics,  
including applications  
to number theory and

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algebraic geometry.

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an extensive index and  
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the basic foundations for the local theory of finite groups, the theory of classical linear groups, and the theory of buildings and BN-pairs.

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groups. Now in its second edition, the authors have revised the text and added much new material. The theory is developed in terms of modules, since this is appropriate for more advanced work, but considerable emphasis is placed

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upon constructing  
characters.

Included here are  
the character  
tables of all groups  
of order less than  
32, and all simple  
groups of order  
less than 1000.

Applications  
covered include  
Burnside's paqb  
theorem, the use of  
character theory in

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studying subgroup structure and permutation groups, and how to use representation theory to investigate molecular vibration. Each chapter features a variety of exercises, with full solutions provided at the end of the



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book. This will be  
ideal as a course

text in  
representation  
theory, and in view  
of the applications,  
will be of interest  
to chemists and  
physicists as well  
as mathematicians.  
Spectral Theory of  
Random Matrices  
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principal bundles  
and homogeneous

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spaces  
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**First published in  
2002. Routledge  
is an imprint of  
Taylor & Francis,  
an informa  
company.  
"These notes are  
about the  
process of**

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**design: the process of inventing things which display new physical order, organization, form, in response to function." This book, opening with these words, presents an**

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**entirely new  
theory of the  
process of  
design. In the  
first part of the  
book,  
Christopher  
Alexander  
discusses the  
process by which  
a form is adapted  
to the context of**

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**human needs and demands that has called it into being. He shows that such an adaptive process will be successful only if it proceeds piecemeal instead of all at once. It is for this**

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**reason that forms  
from traditional  
un-self-  
conscious  
cultures, molded  
not by designers  
but by the slow  
pattern of  
changes within  
tradition, are so  
beautifully  
organized and**

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**adapted. When  
the designer, in  
our own self-  
conscious  
culture, is called  
on to create a  
form that is  
adapted to its  
context he is  
unsuccessful,  
because the  
preconceived**



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**categories out of  
which he builds  
his picture of the  
problem do not  
correspond to the  
inherent  
components of  
the problem, and  
therefore lead  
only to the  
arbitrariness,  
willfulness, and**

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**lack of  
understanding  
which plague the  
design of modern  
buildings and  
modern cities. In  
the second part,  
Mr. Alexander  
presents a  
method by which  
the designer may  
bring his full**

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Isaacs Algebra

**creative  
imagination into  
play, and yet  
avoid the traps of  
irrelevant  
preconception.  
He shows that,  
whenever a  
problem is  
stated, it is  
possible to  
ignore existing**

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Isaacs Algebra

**concepts and to  
create new  
concepts, out of  
the structure of  
the problem  
itself, which do  
correspond  
correctly to what  
he calls the  
subsystems of  
the adaptive  
process. By**

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Isaacs Algebra  
**treating each of  
these**

**subsystems as a  
separate  
subproblem, the  
designer can  
translate the new  
concepts into  
form. The form,  
because of the  
process, will be  
well-adapted to**

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**its context, non-arbitrary, and correct. The mathematics underlying this method, based mainly on set theory, is fully developed in a long appendix. Another appendix demonstrates the**

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**application of the  
method to the  
design of an  
Indian village.  
One of the  
challenges many  
mathematics  
students face  
occurs after they  
complete their  
study of basic  
calculus and**

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**linear algebra,  
and they start  
taking courses  
where they are  
expected to write  
proofs.**

**Historically,  
students have  
been learning to  
think  
mathematically  
and to write**



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**proofs by  
studying  
Euclidean  
geometry. In the  
author's opinion,  
geometry is still  
the best way to  
make the  
transition from  
elementary to  
advanced  
mathematics. The**

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**book begins with  
a thorough  
review of high  
school geometry,  
then goes on to  
discuss special  
points associated  
with triangles,  
circles and  
certain  
associated lines,  
Ceva's theorem,**

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**vector  
techniques of  
proof, and compa  
ss-and-  
straightedge  
constructions.  
There is also  
some emphasis  
on proving  
numerical  
formulas like the  
laws of sines,**

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**cosines, and  
tangents,  
Stewart's  
theorem,  
Ptolemy's  
theorem, and the  
area formula of  
Heron. An  
important  
difference of this  
book from the  
majority of**

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**modern college  
geometry texts is  
that it avoids  
axiomatics. The  
students using  
this book have  
had very little  
experience with  
formal  
mathematics.  
Instead, the focus  
of the course and**

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**the book is on  
interesting  
theorems and on  
the techniques  
that can be used  
to prove them.  
This makes the  
book suitable to  
second- or third-  
year mathematics  
majors and also  
to secondary**

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**mathematics  
education**

**majors, allowing  
the students to  
learn how to write  
proofs of  
mathematical  
results and, at  
the end, showing  
them what  
mathematics is  
really all about.**

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**Character theory is a powerful tool for understanding finite groups. In particular, the theory has been a key ingredient in the classification of finite simple groups.**

**Characters are**



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**also of interest in  
their own right,  
and their  
properties are  
closely related to  
properties of the  
structure of the  
underlying group.  
The book begins  
by developing the  
module theory of  
complex group**

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**algebras. After the module-theoretic foundations are laid in the first chapter, the focus is primarily on characters. This enhances the accessibility of the material for students, which**

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**was a major consideration in the writing. Also with students in mind, a large number of problems are included, many of them quite challenging. In addition to the development of**

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**the basic theory  
(using a cleaner  
notation than  
previously), a  
number of more  
specialized  
topics are  
covered with  
accessible  
presentations.  
These include  
projective**

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**representations,  
the basics of the  
Schur index,  
irreducible  
character  
degrees and  
group structure,  
complex linear  
groups,  
exceptional  
characters, and a  
fairly extensive**

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**introduction to  
blocks and  
Brauer  
characters. This  
is a corrected  
reprint of the  
original 1976  
version, later  
reprinted by  
Dover. Since  
1976 it has  
become the**

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**standard  
reference for  
character theory,  
appearing in the  
bibliography of  
almost every  
research paper in  
the subject. It is  
largely self-  
contained,  
requiring of the  
reader only the**

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**most basic facts  
of linear algebra,  
group theory,  
Galois theory and  
ring and module  
theory.**

**Character Theory  
of Finite Groups  
Problems in  
Group Theory  
Spectral Theory  
of Random**



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Jacket.*

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Mathematical Games*

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*columns in Scientific  
American inspired  
and entertained  
several generations of  
mathematicians and  
scientists. Gardner in  
his crystal-clear prose  
illuminated corners  
of mathematics,  
especially recreational  
mathematics, that  
most people had no  
idea existed. His*

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*playful spirit and  
inquisitive nature  
invite the reader into  
an exploration of  
beautiful  
mathematical ideas  
along with him. These  
columns were both a  
revelation and a gift  
when he wrote them;  
no one--before  
Gardner--had written  
about mathematics*

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*like this. They  
continue to be a  
marvel. This volume,  
first published in  
1977, contains  
columns published in  
the magazine from  
1965-1968. This 1990  
MAA edition contains  
a foreword by Persi  
Diaconis and Ron  
Graham and a  
postscript and*

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*extended bibliography  
added by Gardner for  
this edition.*

*This textbook is an  
introduction to the  
theory and  
applications of finite  
tight frames, an area  
that has developed  
rapidly in the last  
decade. Stimulating  
much of this growth  
are the applications*

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*of finite frames to  
diverse fields such as  
signal processing,  
quantum information  
theory, multivariate  
orthogonal  
polynomials, and  
remote sensing.*

*Featuring exercises  
and MATLAB  
examples in each  
chapter, the book is  
well suited as a*

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*textbook for a  
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seminar involving  
finite frames. The  
self-contained, user-  
friendly presentation  
also makes the work  
useful as a self-study  
resource or reference  
for graduate students,  
instructors,  
researchers, and  
practitioners in pure*

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*and applied  
mathematics,  
engineering,  
mathematical physics,  
and signal processing.  
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undergraduate- or  
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provides an example-  
oriented, less heavily  
symbolic approach to*



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*abstract algebra. The text emphasizes specifics such as basic number theory, polynomials, finite fields, as well as linear and multilinear algebra. This classroom-tested, how-to manual takes a more narrative approach than the stiff formalism of*

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*many other textbooks,  
presenting coherent  
storylines to convey  
crucial ideas in a  
student-friendly,  
accessible manner. An  
unusual feature of  
the text is the  
systematic  
characterization of  
objects by universal  
mapping properties,  
rather than by*

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*constructions whose technical details are irrelevant. Addresses Common Curricular Weaknesses In addition to standard introductory material on the subject, such as Lagrange's and Sylow's theorems in group theory, the text provides important specific illustrations*

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*of general theory,  
discussing in detail  
finite fields,  
cyclotomic  
polynomials, and  
cyclotomic fields. The  
book also focuses on  
broader background,  
including brief but  
representative  
discussions of naive  
set theory and  
equivalents of the*

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*axiom of choice,  
quadratic reciprocity,  
Dirichlet's theorem on  
primes in arithmetic  
progressions, and  
some basic complex  
analysis. Numerous  
worked examples and  
exercises throughout  
facilitate a thorough  
understanding of the  
material.*

*Elements of Abstract*

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*The authors  
provide a  
complete  
classification of  
the radial  
solutions to a  
class of reaction  
diffusion*

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*equations arising  
in the study of  
thermal structures  
such as plasmas  
with thermal  
equilibrium or no  
flux at the  
boundary. In  
particular, their  
study includes  
rapidly growing  
nonlinearities,*



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*that is, those  
where an  
exponent exceeds  
the critical  
exponent. They  
describe the  
corresponding  
bifurcation  
diagrams and  
determine  
existence and  
uniqueness of*

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*ground states,  
which play a  
central role in  
characterizing  
those diagrams.  
They also provide  
information on the  
stability-  
unstability of the  
radial steady  
states.*

*Great book! The*

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*author's teaching  
experinece shows  
in every chapter.*

*--Efim Zelmanov,  
University of  
California, San  
Diego  
Vinberg has  
written an algebra  
book that is  
excellent, both as  
a classroom text  
or for self-study. It*

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*is plain that years  
of teaching*

*abstract algebra  
have enabled him*

*to say the right  
thing at the right*

*time. --Irving*

*Kaplansky, MSRI*

*This is a*

*comprehensive*

*text on modern*

*algebra written for*

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undergraduate  
and basic  
graduate algebra  
classes. The book  
is based on  
courses taught by  
the author at the  
Mechanics and  
Mathematics  
Department of  
Moscow State*

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*University and at  
the Mathematical  
College of the  
Independent  
University of  
Moscow. The  
unique feature of  
the book is that it  
contains almost  
no technically  
difficult proofs.  
Following his point*

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*of view on  
mathematics, the  
author tried,  
whenever  
possible, to  
replace  
calculations and  
difficult  
deductions with  
conceptual proofs  
and to associate  
geometric images*

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*to algebraic  
objects. Another  
important feature  
is that the book  
presents most of  
the topics on  
several levels,  
allowing the  
student to move  
smoothly from  
initial  
acquaintance to*



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*thorough study  
and deeper  
understanding of  
the subject.*

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basic topics in  
algebra such as  
algebraic  
structures, linear  
algebra,  
polynomials,  
groups, as well as*

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*more advanced  
topics like affine  
and projective  
spaces, tensor  
algebra, Galois  
theory, Lie groups,  
associative  
algebras and their  
representations.  
Some applications  
of linear algebra  
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Very roughly speaking, representation theory studies symmetry in linear spaces. It is a beautiful mathematical subject which has many applications, ranging from number theory and combinatorics to geometry, probability theory, quantum

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mechanics, and  
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The goal of this book  
is to give a "holistic"  
introduction to  
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presenting it as a  
unified subject which  
studies  
representations of  
associative algebras  
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topics; the more difficult exercises are provided with hints. The book is designed as a textbook for advanced undergraduate and beginning graduate students. It should be accessible to students with a strong background in linear algebra and a basic knowledge of abstract

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algebra.

Providing an introduction to stochastic optimal control in infinite dimension, this book gives a complete account of the theory of second-order HJB equations in infinite-dimensional Hilbert spaces, focusing on its applicability to associated stochastic

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optimal control problems. It features a general introduction to optimal stochastic control, including basic results (e.g. the dynamic programming principle) with proofs, and provides examples of applications. A complete and up-to-date exposition of the existing theory of



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viscosity solutions and regular solutions of second-order HJB equations in Hilbert spaces is given, together with an extensive survey of other methods, with a full bibliography. In particular, Chapter 6, written by M. Fuhrman and G. Tessitore, surveys the theory of regular solutions of

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HJB equations arising in infinite-dimensional stochastic control, via BSDEs. The book is of interest to both pure and applied researchers working in the control theory of stochastic PDEs, and in PDEs in infinite dimension. Readers from other fields who want to learn the basic theory will also find it

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useful. The prerequisites are: standard functional analysis, the theory of semigroups of operators and its use in the study of PDEs, some knowledge of the dynamic programming approach to stochastic optimal control problems in finite dimension, and the

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basics of stochastic  
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a geometric  
introduction to the  
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cohomology of  
smooth manifolds.

The author  
introduces a new  
class of stratified  
spaces, so-called  
stratifolds. He  
derives basic  
concepts from  
differential  
topology such as  
Sard's theorem,

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partitions of unity  
and transversality.  
Based on this,  
homology groups  
are constructed in  
the framework of  
stratifolds and the  
homology axioms  
are proved. This  
implies that for  
nice spaces these  
homology groups

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agree with ordinary  
singular homology.

Besides the  
standard

computations of  
homology groups  
using the axioms,  
straightforward  
constructions of  
important

homology classes  
are given. The



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author also defines  
stratifold

cohomology

groups following  
an idea of Quillen.

Again, certain  
important

cohomology

classes occur very

naturally in this

description, for

example, the

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characteristic classes which are constructed in the book and applied later on. One of the most fundamental results, Poincare duality, is almost a triviality in this approach. Some fundamental

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invariants, such as the Euler characteristic and the signature, are derived from (co)homology groups. These invariants play a significant role in some of the most spectacular results in differential

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topology. In particular, the author proves a special case of Hirzebruch's signature theorem and presents as a highlight Milnor's exotic 7-spheres. This book is based on courses the author taught in

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Readers should be familiar with the basic notions of point-set topology and differential topology. The book can be used for a combined introduction to differential and

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algebraic topology,  
as well as for a  
quick presentation  
of (co)homology in  
a course about  
differential  
geometry.

265 challenging  
problems in all  
phases of group  
theory, gathered  
for the most part

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from papers published since 1950, although some classics are included.

Let  $N$  be a normal subgroup of a finite group  $G$  and let  $F$  be a field. An important method for constructing irreducible  $FG$ -

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modules consists of the application (perhaps repeated) of three basic operations:

- (i) restriction to FN.
- (ii) extension from FN.
- (iii) induction from FN.

This is the 'Clifford Theory' developed by Clifford in 1937.



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In the past twenty years, the theory has enjoyed a period of vigorous development. The foundations have been strengthened and reorganized from new points of view, especially from the viewpoint of graded rings

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and crossed products. The purpose of this monograph is to tie together various threads of the development in order to give a comprehensive picture of the current state of the subject. It is

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assumed that the reader has had the equivalent of a standard first-year graduate algebra course, i.e.

familiarity with basic ring-theoretic, number-theoretic and group-theoretic concepts, and an

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understanding of  
elementary  
properties of  
modules, tensor  
products and  
fields.

Introduction To  
Commutative  
Algebra

Riemann's zeta  
function

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Proofs Without  
Words

Based in large part on the comprehensive "First Course in Ring Theory" by the same author, this book provides a comprehensive

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set of problems and solutions in ring theory that will serve not only as a teaching aid to instructors using that book, but also for students, who will see how ring theory theorems

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are applied to solving ring-theoretic problems and how good proofs are written. The author demonstrates that problem-solving is a lively process: in "Comments"

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following many solutions he discusses what happens if a hypothesis is removed, whether the exercise can be further generalized, what would be a concrete



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example for the exercise, and so forth. The book is thus much more than a solution manual. Excellent text covers vector fields, plane homology and the Jordan Curve Theorem,

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surfaces,  
homology of  
complexes,  
more. Problems  
and exercises.

Some  
knowledge of  
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