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The material presented in this book corresponds to a semester-long course, ``Linear Algebra and Differential Equations'', taught to

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sophomore students at UC Berkeley. In contrast with typical undergraduate texts, the book offers a unifying point of view on the subject, namely that linear algebra solves several clearly-posed classification problems about such geometric objects as

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quadratic forms and linear transformations. This attractive viewpoint on the classical theory agrees well with modern tendencies in advanced mathematics and is shared by many research mathematicians. However, the idea of classification seldom finds its

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way to basic programs in mathematics, and is usually unfamiliar to undergraduates. To meet the challenge, the book first guides the reader through the entire agenda of linear algebra in the elementary environment of two-dimensional geometry, and prior to

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spelling out the general idea and employing it in higher dimensions, shows how it works in applications such as linear ODE systems or stability of equilibria. Appropriate as a text for regular junior and honors sophomore level college classes, the book is accessible to

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high school students familiar with basic calculus, and can also be useful to engineering graduate students.

This book provides a complete abstract algebra course, enabling instructors to select the topics for use in individual classes.

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The goal of this book is to investigate further the interdisciplinary interaction between Mathematical Analysis and Topology. It provides an attempt to study various approaches in the topological applications and influence to Function Theory,

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Calculus of Variations, Functional Analysis and Approximation Theory. The volume is dedicated to the memory of S Stoilow. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come

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packaged with the bound book. Algebra, Second Edition, by Michael Artin, provides comprehensive coverage at the level of an honors-undergraduate or introductory-graduate course. The second edition of this classic text incorporates twenty years of

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feedback plus the author's own teaching experience. This book discusses concrete topics of algebra in greater detail than others, preparing readers for the more abstract concepts; linear algebra is tightly integrated throughout.

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Algebra

***A Concise Course in Algebraic
Topology***

Advanced Calculus

Supplement Volume I

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of S. Stoilow***

Using an extremely clear and

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informal approach, this book introduces readers to a rigorous understanding of mathematical analysis and presents challenging math concepts as clearly as possible. The real number system. Differential calculus of functions of

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one variable. Riemann integral functions of one variable. Integral calculus of real-valued functions. Metric Spaces. For those who want to gain an understanding of mathematical analysis and challenging mathematical

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concepts.

This book is written as a textbook on algebraic topology. The first part covers the material for two introductory courses about homotopy and homology. The second part presents more

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advanced applications and concepts (duality, characteristic classes, homotopy groups of spheres, bordism). The author recommends starting an introductory course with homotopy theory. For this purpose, classical

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results are presented with new elementary proofs. Alternatively, one could start more traditionally with singular and axiomatic homology. Additional chapters are devoted to the geometry of manifolds, cell complexes and

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fibre bundles. A special feature is the rich supply of nearly 500 exercises and problems. Several sections include topics which have not appeared before in textbooks as well as simplified proofs for some important results.

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Prerequisites are standard point set topology (as recalled in the first chapter), elementary algebraic notions (modules, tensor product), and some terminology from category theory. The aim of the book is to introduce advanced

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undergraduate and graduate (master's) students to basic tools, concepts and results of algebraic topology. Sufficient background material from geometry and algebra is included.

"The text is suitable for a typical

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introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a

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variety of programs."--Page 1.
Book Description: Gilbert Strang's textbooks have changed the entire approach to learning linear algebra -- away from abstract vector spaces to specific examples of the four fundamental

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subspaces: the column space and nullspace of A and A' . Introduction to Linear Algebra, Fourth Edition includes challenge problems to complement the review problems that have been highly praised in previous editions. The basic course

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is followed by seven applications: differential equations, engineering, graph theory, statistics, Fourier methods and the FFT, linear programming, and computer graphics. Thousands of teachers in colleges and universities and now

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high schools are using this book, which truly explains this crucial subject.

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Encyclopaedia of Mathematics,
Supplement III

Basic Algebra

The fundamental theorem of algebra states that any complex polynomial must have a complex

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root. This book examines three pairs of proofs of the theorem from three different areas of mathematics: abstract algebra, complex analysis and topology.

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The first proof in each pair is fairly straightforward and depends only on what could be considered elementary mathematics. However, each of these

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first proofs leads to more general results from which the fundamental theorem can be deduced as a direct consequence. These general results

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constitute the second proof in each pair. To arrive at each of the proofs, enough of the general theory of each relevant area is developed to understand

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the proof. In addition to the proofs and techniques themselves, many applications such as the insolvability of the quintic and the transcendence of e and

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pi are presented. Finally, a series of appendices give six additional proofs including a version of Gauss' original first proof. The book is

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intended for junior/senior level undergraduate mathematics students or first year graduate students, and would make an ideal "capstone"

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course in mathematics. This is the first Supplementary volume to Kluwer's highly acclaimed Encyclopaedia of Mathematics. This additional volume

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contains nearly 600 new entries written by experts and covers developments and topics not included in the already published 10-volume set. These

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entries have been arranged alphabetically throughout. A detailed index is included in the book. This Supplementary volume enhances the existing 10-volume set.

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Together, these eleven volumes represent the most authoritative, comprehensive up-to-date Encyclopaedia of Mathematics available. The style and structure

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of CONCEPTS IN ABSTRACT ALGEBRA is designed to help students learn the core concepts and associated techniques in algebra deeply and well. Providing a fuller and

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richer account of material than time allows in a lecture, this text presents interesting examples of sufficient complexity so that students can see

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the concepts and results used in a nontrivial setting. Author Charles Lanski gives students the opportunity to practice by offering many exercises that

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require the use and synthesis of the techniques and results. Both readable and mathematically interesting, the text also helps students

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learn the art of constructing mathematical arguments. Overall, students discover how mathematics proceeds and how to use techniques that

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mathematicians actually employ. This book is included in the Brooks/Cole Series in Advanced Mathematics (Series Editor: Paul Sally, Jr.).

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This textbook covers the material for an undergraduate linear algebra course: vectors, matrices, linear transformations, computational

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techniques, geometric constructions, and theoretical foundations. The explanations are given in an informal conversational tone. The book also contains 100+

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problems and exercises with answers and solutions. A special feature of this textbook is the prerequisites chapter that covers topics from high school

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math, which are necessary for learning linear algebra. The presence of this chapter makes the book suitable for beginners and the general audience-readers

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need not be math experts to read this book.

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linear algebra to engineering, computer science, economics, chemistry, machine learning, and even quantum mechanics. Lectures Delivered at

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*the University of Notre
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(Notre Dame Mathematical
Lectures,
Basic Abstract Algebra
Introduction to Real
Analysis*

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General Survey Second Edition

This book contains an extensive collection of exercises and problems that address relevant topics in linear algebra. Topics that the author finds missing or

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inadequately covered in most existing books are also included. The exercises will be both interesting and helpful to an average student. Some are fairly routine calculations, while others require serious thought. The

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that provides the interest, the challenge, and the motivation that is needed by experienced scholars as much as by beginning students. The best way to learn is to do, and the purpose of this book is to get the reader to DO linear algebra.

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Basic Algebra and Advanced Algebra systematically develop concepts and tools in algebra that are vital to every mathematician, whether pure or applied, aspiring or established. Together, the two

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the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional exercises to improve student familiarity with

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applications. 1990 edition.

An authorised reissue of the long out of print classic textbook, Advanced Calculus by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for

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decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to

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year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one

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variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention

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Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus

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(principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds. Algebraic topology is a basic part of modern mathematics, and some knowledge of this area is indispensable for any advanced work

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relating to geometry, including topology itself, differential geometry, algebraic geometry, and Lie groups. This book provides a detailed treatment of algebraic topology both for teachers of the subject and for advanced graduate students in mathematics either specializing in this

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area or continuing on to other fields. J. Peter May's approach reflects the enormous internal developments within algebraic topology over the past several decades, most of which are largely unknown to mathematicians in other fields. But he also retains the classical presentations of various

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topics where appropriate. Most chapters end with problems that further explore and refine the concepts presented. The final four chapters provide sketches of substantial areas of algebraic topology that are normally omitted from introductory texts, and the book concludes with a list of

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suggested readings for those interested in delving further into the field.

Introduction To Commutative Algebra

Topology I

Galois Theory

No Bullshit Guide to Linear Algebra

Tensor Categories

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This is the third supplementary volume to Kluwer's highly acclaimed twelve-volume Encyclopaedia of Mathematics. This additional volume contains nearly 500 new entries written by experts and covers

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are included, along with hints or complete solutions for most of the problems. Together the two books give the reader a global view of algebra and its role in mathematics as a whole. This book is a self-contained elementary introduction to rings and modules, and should be useful for

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courses on Algebra. The emphasis is on concept development with adequate examples and counter-examples drawn from topics such as analysis, topology, etc. The entire material, including exercises, is fully class tested.

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some are easy and straightforward, while others are more challenging All problems are elegantly solved

Is there a vector space whose dimension is the golden ratio? Of course not—the golden ratio is not an integer! But this can happen for generalizations of vector spaces—objects of a tensor category. The

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theory of tensor categories is a relatively new field of mathematics that generalizes the theory of group representations. It has deep connections with many other fields, including representation theory, Hopf algebras, operator algebras, low-dimensional topology (in particular, knot theory),

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homotopy theory, quantum mechanics and field theory, quantum computation, theory of motives, etc. This book gives a systematic introduction to this theory and a review of its applications. While giving a detailed overview of general tensor categories, it focuses especially on the theory of finite tensor categories

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and fusion categories (in particular, braided and modular ones), and discusses the main results about them with proofs. In particular, it shows how the main properties of finite-dimensional Hopf algebras may be derived from the theory of tensor categories. Many important results are

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presented as a sequence of exercises, which makes the book valuable for students and suitable for graduate courses. Many applications, connections to other areas, additional results, and references are discussed at the end of each chapter.

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mechanism of compiler design. The goal of this book is to make the students experts in compiler's working principle, program execution and error detection. This book is modularized on the six phases of the compiler namely lexical analysis, syntax analysis and semantic analysis which comprise the

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analysis phase and the intermediate code generator, code optimizer and code generator which are used to optimize the coding. Any program efficiency can be provided through our optimization phases when it is translated for source program to target program. To be useful, a textbook on compiler design

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must be accessible to students without technical backgrounds while still providing substance comprehensive enough to challenge more experienced readers. This text is written with this new mix of students in mind. Students should have some knowledge of intermediate programming, including

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