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Multilinear Algebra

Math Talks for Undergraduates

Algebra and Trigonometry

Solutions Manual for Lang's Linear Algebra

Problems and Solutions for Complex Analysis

Algebra

Introduction to Algebraic Geometry

Linear Algebra

Undergraduate Analysis

Complex Variables for Scientists and Engineers

Linear Algebra Via Exterior Products

Precalculus Mathematics in a Nutshell: Geometry, Algebra, Trigonometry

Linear Algebra as an Introduction to Abstract Mathematics

Abelian Varieties

Advanced Linear Algebra

Algebra lineare

Linear Algebra

Linear Algebra

Collected Papers I

Solutions Manual for Lang's Linear Algebra

Algebra

Linear Algebra Done Right

Linear Algebra

Linear Algebra and Its Applications

Undergraduate Algebra

Álgebra lineal

Basic Mathematics
Calculus
Calculus of Several Variables
Introducción al álgebra lineal
Number Theory, Analysis and Geometry
Basic Mathematics
Algebraic Number Theory
Algebra lineal
Real and Functional Analysis
Introduction to Algebraic and Abelian Functions
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Undergraduate Algebra
Introduction to Linear Algebra
Mathematical Conversations

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Multilinear Algebra Springer Science & Business Media

The companion title, Linear Algebra, has sold over 8,000 copies
The writing style is very accessible The material can be covered
easily in a one-year or one-term course Includes Noah Snyder's
proof of the Mason-Stothers polynomial abc theorem New
material included on product structure for matrices including
descriptions of the conjugation representation of the diagonal
group

Math Talks for Undergraduates Springer Science & Business
Media

This set features Linear Algebra and Its Applications, Second Edition (978-0-471-75156-4) Linear Algebra and Its Applications, Second Edition presents linear algebra as the theory and practice of linear spaces and linear maps with a unique focus on the analytical aspects as well as the numerous applications of the subject. In addition to thorough coverage of linear equations, matrices, vector spaces, game theory, and numerical analysis, the Second Edition features student-friendly additions that enhance the book's accessibility, including expanded topical coverage in the early chapters, additional exercises, and solutions to selected problems. Beginning chapters are devoted to the abstract structure of finite dimensional vector spaces, and subsequent chapters address convexity and the duality theorem as well as describe the basics of normed linear spaces and linear

maps between normed spaces. Further updates and revisions have been included to reflect the most up-to-date coverage of the topic, including: The QR algorithm for finding the eigenvalues of a self-adjoint matrix The Householder algorithm for turning self-adjoint matrices into tridiagonal form The compactness of the unit ball as a criterion of finite dimensionality of a normed linear space Additionally, eight new appendices have been added and cover topics such as: the Fast Fourier Transform; the spectral radius theorem; the Lorentz group; the compactness criterion for finite dimensionality; the characterization of commentators; proof of Liapunov's stability criterion; the construction of the Jordan Canonical form of matrices; and Carl Percy's elegant proof of Halmos' conjecture about the numerical range of matrices. Clear, concise, and superbly organized, *Linear Algebra and Its Applications, Second Edition* serves as an excellent text for advanced undergraduate- and graduate-level courses in linear algebra. Its comprehensive treatment of the subject also makes it an ideal reference or self-study for industry professionals. and *Functional Analysis* (978-0-471-55604-6) both by Peter D. Lax.

Algebra and Trigonometry Springer

This book begins with an exposition of the basic theory of vector spaces and proceeds to explain the fundamental structure theorem for linear maps, including eigenvectors and eigenvalues, quadratic and hermitian forms, diagonalization of symmetric, hermitian, and unitary linear maps and matrices, triangulation, and Jordan canonical form. Material in this new edition has been rewritten and reorganized and new exercises have been added.

Solutions Manual for Lang's Linear Algebra Springer Science & Business Media

Written for a one- or two-term course at the freshman/sophomore level, the third edition covers the principles of college algebra, trigonometry, and analytic geometry in the concise and student-friendly style that have made Zill's texts a world-wide success. It includes all of the trademark features for which Zill is known including, lucid examples and problem sets, a rich pedagogy, a complete teaching and learning ancillary package, and much more. Throughout the text readers will find a wide range of word problems and relevant applications, historical accounts of famous mathematicians, and a strong variety of modern exercises.

Problems and Solutions for Complex Analysis Springer Science & Business Media

Outstanding undergraduate text provides a thorough understanding of fundamentals and creates the basis for higher-level courses. Numerous examples and extensive exercise sections of varying difficulty, plus answers to selected exercises. 1990 edition.

Algebra Wipf and Stock Publishers

For many years, Serge Lang has given talks on selected items in mathematics which could be extracted at a level understandable by those who have had calculus. Written in a conversational tone, Lang now presents a collection of those talks as a book covering such topics as: prime numbers, the abc conjecture, approximation theorems of analysis, Bruhat-Tits spaces, and harmonic and symmetric polynomials. Each talk is written in a lively and informal style meant to engage any reader looking for further insight into mathematics.

Introduction to Algebraic Geometry Springer Science & Business Media

Serge Lang is not only one of the top mathematicians of our time, but also an excellent writer. He has made innumerable and invaluable contributions in diverse fields of mathematics and was honoured with the Cole Prize by the American Mathematical Society as well as with the Prix Carriere by the French Academy of Sciences. Here, 83 of his research papers are collected in four volumes, ranging over a variety of topics of interest to many readers.

Linear Algebra Courier Dover Publications

This solutions manual for Lang's Undergraduate Analysis provides worked-out solutions for all problems in the text. They include enough detail so that a student can fill in the intervening details between any pair of steps.

Undergraduate Analysis Springer Science & Business Media

Author Serge Lang defines algebraic geometry as the study of systems of algebraic equations in several variables and of the structure that one can give to the solutions of such equations. The study can be carried out in four ways: analytical, topological, algebraico-geometric, and arithmetic. This volume offers a rapid, concise, and self-contained introductory approach to the algebraic aspects of the third method, the algebraico-geometric. The treatment assumes only familiarity with elementary algebra up to the level of Galois theory. Starting with an opening chapter on the general theory of places, the author advances to examinations of algebraic varieties, the absolute theory of varieties, and products, projections, and correspondences. Subsequent chapters explore normal varieties, divisors and linear systems, differential forms, the theory of simple points, and algebraic groups, concluding with a focus on the Riemann-Roch

theorem. All the theorems of a general nature related to the foundations of the theory of algebraic groups are featured.

Complex Variables for Scientists and Engineers Courier Dover Publications

The companion title, Linear Algebra, has sold over 8,000 copies. The writing style is very accessible. The material can be covered easily in a one-year or one-term course. Includes Noah Snyder's proof of the Mason-Stothers polynomial abc theorem. New material included on product structure for matrices including descriptions of the conjugation representation of the diagonal group.

Linear Algebra Via Exterior Products Springer Science & Business Media

This new, revised edition covers all of the basic topics in calculus of several variables, including vectors, curves, functions of several variables, gradient, tangent plane, maxima and minima, potential functions, curve integrals, Green's theorem, multiple integrals, surface integrals, Stokes' theorem, and the inverse mapping theorem and its consequences. It includes many completely worked-out problems.

Precalculus Mathematics in a Nutshell: Geometry, Algebra, Trigonometry World Scientific Publishing Company

This solutions manual for Lang's Undergraduate Analysis provides worked-out solutions for all problems in the text. They include enough detail so that a student can fill in the intervening details between any pair of steps.

Linear Algebra as an Introduction to Abstract Mathematics

Springer Science & Business Media

In honor of Serge Lang's vast contribution to mathematics, this

memorial volume presents articles by prominent mathematicians. Reflecting the breadth of Lang's own interests and accomplishments, these essays span the field of Number Theory, Analysis and Geometry.

Abelian Varieties Jones & Bartlett Publishers

This is a short text in linear algebra, intended for a one-term course. In the first chapter, Lang discusses the relation between the geometry and the algebra underlying the subject, and gives concrete examples of the notions which appear later in the book. He then starts with a discussion of linear equations, matrices and Gaussian elimination, and proceeds to discuss vector spaces, linear maps, scalar products, determinants, and eigenvalues. The book contains a large number of exercises, some of the routine computational type, while others are conceptual.

Advanced Linear Algebra Springer Science & Business Media

All the exercises plus their solutions for Serge Lang's fourth edition of "Complex Analysis," ISBN 0-387-98592-1. The problems in the first 8 chapters are suitable for an introductory course at undergraduate level and cover power series, Cauchy's theorem, Laurent series, singularities and meromorphic functions, the calculus of residues, conformal mappings, and harmonic functions. The material in the remaining 8 chapters is more advanced, with problems on Schwartz reflection, analytic continuation, Jensen's formula, the Phragmen-Lindelof theorem, entire functions, Weierstrass products and meromorphic functions, the Gamma function and Zeta function. Also beneficial for anyone interested in learning complex analysis.

Algebra lineare Springer Science & Business Media

Covers a notably broad range of topics, including some topics not

generally found in linear algebra books Contains a discussion of the basics of linear algebra

Linear Algebra Courier Corporation

Introduction to Algebraic and Abelian Functions is a self-contained presentation of a fundamental subject in algebraic geometry and number theory. For this revised edition, the material on theta functions has been expanded, and the example of the Fermat curves is carried throughout the text. This volume is geared toward a second-year graduate course, but it leads naturally to the study of more advanced books listed in the bibliography.

Linear Algebra Springer Science & Business Media

This book is meant as a text for a first-year graduate course in analysis. In a sense, it covers the same topics as elementary calculus but treats them in a manner suitable for people who will be using it in further mathematical investigations. The organization avoids long chains of logical interdependence, so that chapters are mostly independent. This allows a course to omit material from some chapters without compromising the exposition of material from later chapters.

Collected Papers I Springer Science & Business Media

This is an introductory textbook designed for undergraduate mathematics majors with an emphasis on abstraction and in particular, the concept of proofs in the setting of linear algebra. Typically such a student would have taken calculus, though the only prerequisite is suitable mathematical grounding. The purpose of this book is to bridge the gap between the more conceptual and computational oriented undergraduate classes to the more abstract oriented classes. The book begins with

systems of linear equations and complex numbers, then relates these to the abstract notion of linear maps on finite-dimensional vector spaces, and covers diagonalization, eigenspaces, determinants, and the Spectral Theorem. Each chapter concludes with both proof-writing and computational exercises.

Solutions Manual for Lang's Linear Algebra Springer Science & Business Media

"Published by OpenStax College, Calculus is designed for the typical two- or three-semester general calculus course,

incorporating innovative features to enhance student learning. The book guides students through the core concepts of calculus and helps them understand how those concepts apply to their lives and the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Volume 2 covers integration, differential equations, sequences and series, and parametric equations and polar coordinates."--BC Campus website.