Geometry Concepts And Applications Study Guide Masters

The three-volume set LNCS 10277-10279 constitutes the refereed proceedings of the 11th International Conference on Unive
Human-Computer Interaction, UAHCI 2017, held as part of the 19th International Conference on Human-Computer Interaction
Vancouver, BC, Canada in July 2017, jointly with 14 other thematically similar conferences. The total of 1228 papers presente
2017 conferences were carefully reviewed and selected from 4340 submissions. The papers included in the three UAHCI 201
the following major topics: Design for All Methods and Practice; Accessibility and Usability Guidelines and Evaluation; User and
Modelling and Monitoring and Interaction Adaptation; Design for Children; Sign Language Processing; Universal Access to Virtu
Augmented Reality; Non Visual and Tactile Interaction; Gesture and Gaze-Based Interaction; Universal Access to Health and Re
Universal Access to Education and Learning; Universal Access to Mobility; Universal Access to Information and Media; and Des
Quality of Life Technologies.

This textbook offers an introduction to differential geometry designed for readers interested in modern geometry processing
basic undergraduate prerequisites, the authors develop manifold theory and Lie groups from scratch; fundamental topics in R
geometry follow, culminating in the theory that underpins manifold optimization techniques. Students and professionals work
vision, robotics, and machine learning will appreciate this pathway into the mathematical concepts behind many modern appli
with the matrix exponential, the text begins with an introduction to Lie groups and group actions. Manifolds, tangent spaces
spaces follow; a chapter on the construction of manifolds from gluing data is particularly relevant to the reconstruction of s
meshes. Vector fields and basic point-set topology bridge into the second part of the book, which focuses on Riemannian ge
Riemannian manifolds encompass Riemannian metrics, geodesics, and curvature. Topics that follow include submersions, curva
groups, and the Log-Euclidean framework. The final chapter highlights naturally reductive homogeneous manifolds and symme
revealing the machinery needed to generalize important optimization techniques to Riemannian manifolds. Exercises are inclu
along with optional sections that delve into more theoretical topics. Differential Geometry and Lie Groups: A Computational P
a uniquely accessible perspective on differential geometry for those interested in the theory behind modern computing appli
suited to classroom use or independent study, the text will appeal to students and professionals alike; only a background in
algebra is assumed. Readers looking to continue on to more advanced topics will appreciate the authors' companion volume D
Geometry and Lie Groups: A Second Course.

Recent advances in both the theory and implementation of computational algebraic geometry have led to new, striking applic
of fields of research. The articles in this volume highlight a range of these applications and provide introductory material for
the IMA workshops on "Optimization and Control" and "Applications in Biology, Dynamics, and Statistics" held during the IMA y
Applications of Algebraic Geometry. The articles related to optimization and control focus on burgeoning use of semidefinite p
moment matrix techniques in computational real algebraic geometry. The new direction towards a systematic study of non-c
algebraic geometry is well represented in the volume. Other articles provide an overview of the way computational algebra is
analysis of contingency tables, reconstruction of phylogenetic trees, and in systems biology. The contributions collected in th
accessible to non-experts, self-contained and informative; they quickly move towards cutting edge research in these areas, a
wealth of open problems for future research.

This introduction to modern geometry differs from other books in the field due to its emphasis on applications and its discus
relativity as a major example of a non-Euclidean geometry. Additionally, it covers the two important areas of non-Euclidean ge
spherical geometry and projective geometry, as well as emphasising transformations, and conics and planetary orbits. Much e
placed on applications throughout the book, which motivate the topics, and many additional applications are given in the exer
excellent introduction for those who need to know how geometry is used in addition to its formal theory.

Differential Geometry of Curves and Surfaces

With a View to Dynamical Systems

Topology and Geometry for Physicists

Geometry: Concepts and Applications, Study Guide Workbook

An Introduction to Convex Geometry with Applications

NoteablesTM: Interactive Study Notebook with FoldablesTM is a complete note-taking system with guided note taking for every lesson - in a workbook format. Plus, vocabulary builder and a chapter test preparation section are included for every chapter.

Computational Geometry is an area that provides solutions to geometric problems which arise in applications including Geographic Information Systems, Robotics and Computer Graphics. This Handbook provides an overview of key concepts and results in Computational Geometry. It may serve as a reference and study guide to the field. Not only the most advanced methods or solutions are described, but also many alternate ways of looking at problems and how to solve them.

This introduction to computational geometry focuses on algorithms. Motivation is provided from the application areas as all techniques are related to particular applications in robotics, graphics, CAD/CAM, and geographic information systems. Modern insights in computational geometry are used to provide solutions that are both efficient and easy to understand and implement.

Includes one practice worksheet for each lesson in the student edition

Universal Access in Human–Computer Interaction. Designing Novel Interactions

Geometry and Convexity

Algebra

Face Geometry and Appearance Modeling

11th International Conference, UAHCI 2017, Held as Part of HCI International 2017, Vancouver, BC, Canada, July 9–14, 2017, Proceedings, Part II

Eureka Math Geometry Study Guide

Differential geometry has a long, wonderful history it has found relevance in areas ranging from machinery design of the classification of four-manifolds to the creation of theories of nature's fundamental forces to the study of DNA. This book studies the differential geometry of surfaces with the goal of helping students make the transition from the compartmentalized courses in a standard university curriculum to a type of mathematics that is a unified whole, it mixes geometry, calculus, linear algebra, differential equations, complex variables, the calculus of variations, and notions from the sciences. Differential geometry is not just for mathematics majors, it is also for students in engineering and the sciences. Into the mix of these ideas comes the opportunity to visualize concepts through the use of computer algebra systems such as Maple. The book emphasizes

that this visualization goes hand-in-hand with the understanding of the mathematics behind the computer construction. Students will not only "see" geodesics on surfaces, but they will also see the effect that an abstract result such as the Clairaut relation can have on geodesics. Furthermore, the book shows how the equations of motion of particles constrained to surfaces are actually types of geodesics. Students will also see how particles move under constraints. The book is rich in results and exercises that form a continuous spectrum, from those that depend on calculation to proofs that are quite abstract.

Learn geometry at your own pace What are congruent circles? How do you find the hypotenuse of a triangle? What is the sum of the angles in a decagon? How can you apply geometric equations to your daily life? With the unbeatable study companion Geometry: A Self-Teaching Guide, you'll discover the answers to these questions and many more. This thorough primer presents an easy-to-follow, proven method for grasping the key concepts of geometry. You'll progress step by step through plane, solid, and analytic geometry and then move on to geometric applications for calculus. You'll build your problem-solving skills along the way through detailed examples, reviews, exercises, and answer explanations. The clearly structured format of Geometry makes it fully accessible, providing an easily understood, comprehensive overview for everyone from high school students to adult learners to math mavens. Like all Self-Teaching Guides, Geometry allows you to build gradually on what you have learned-at your own pace. Questions and self-tests reinforce the information in each chapter and allow you to skip ahead or focus on specific areas of concern. Packed with useful, up-to-date information, this clear, concise volume is a valuable learning tool and reference source for anyone who wants to improve his or her understanding of basic geometry.

"Adopted by the California State Board of Education, March 2005"--Cover.

Differential geometry and topology are essential tools for many theoretical physicists, particularly in the study of condensed matter physics, gravity, and particle physics. Written by physicists for physics students, this text introduces geometrical and topological methods in theoretical physics and applied mathematics. It assumes no detailed background in topology or geometry, and it emphasizes physical motivations, enabling students to apply the techniques to their physics formulas and research. "Thoroughly recommended" by The Physics Bulletin, this volume's physics applications range from condensed matter physics and statistical mechanics to elementary particle theory. Its main mathematical topics include differential forms, homotopy, homology, cohomology, fiber bundles, connection and covariant derivatives, and Morse theory.

A Study in Mathematical Methods

Technical Calculus with Analytic Geometry

A Self-Teaching Guide

Computational Geometry

Mathematics Learning in Early Childhood

Regression Estimators

This Geometry workbook makes the fundamental concepts of geometry accessible and interesting for college students and incorporates a variety of basic algebra skills in order to show the connection between Geometry and Algebra. Topics include: A Brief History of Geometry 1. Basic Geometry Concepts 2. More about Angles 3. Triangles 4. More about Triangles: Similarity and Congruence 5. Quadrilaterals 6. Polygons 7. Area and Perimeter 8. Circles 9. Volume and Surface Area 10. Basic Trigonometry

Geometry Designed for Understanding Jacobs' Geometry utilizes a clear, conversational, engaging approach to teach your student the concepts, principles, and application of Geometry through practical, real-life application! Harold Jacobs guides your student through Geometry, enabling them to discover the concepts & their applications for themselves in order to develop an understanding of the principles that goes beyond simple memorization to pass a test. Jacobs' unique instructional approach to math means your student: Develops a true understanding of geometric principlesInteracts with concepts using real-world examples, ensuring they'll know exactly how to apply the material they are learning to real-life and other academic subjectsIs prepared to take their understanding of Geometry concepts outside the math textbook and successfully apply them to higher math courses, sciences, & everyday lifeIs equipped with an understanding of the foundational mathematical concepts of Geometry—and once a student truly understands the concepts in Geometry, they are equipped & prepared for all higher math & sciences! Engaging, Real-World Instruction Understanding both the why and how of Geometry is foundational to your student's success in high school and college. Jacobs' Geometry provides students with a clear and thorough understanding of why concepts work, as well as how they are applied to solve real-world problems. A Top Choice for High School Success & College Prep Jacobs' Geometry has proven its ability to guide students towards success and is still the choice of top teachers and schools. The unique instructional method within Jacobs' Geometry ensures your student understands both the why and how of Geometry and establishes a strong foundation for higher math & science courses. If your student is planning for college or a STEM career, Jacobs' Geometry ensures they are equipped with the tools they need to succeed! Geometry Student Text Includes: Full Color Illustrations16 sections, covering deductive reasoning, lines & angles, congruence, inequalities, quadrilaterals, area, triangles, circles, theorems, polygons, geometric solids, and more!Answers to select exercises in the back of the textFlexible based on focus & intensity of courseSet I exercises review ideas & concepts from previous lessons to provide ongoing application of material.Set II exercises allow student to apply material from the new lessonSet III exercises provided additional, more challenging problems

In recent years the methods of modern differential geometry have become of considerable importance in theoretical physics and have found application in relativity and cosmology, high-energy physics and field theory, thermodynamics, fluid dynamics and mechanics. This textbook provides an introduction to these methods - in particular Lie derivatives, Lie groups and differential forms - and covers their extensive applications to theoretical physics. The reader is assumed to have some familiarity with advanced calculus, linear algebra and a little elementary operator theory. The advanced physics undergraduate should therefore find the presentation quite accessible. This account will prove valuable for those with backgrounds in physics and applied mathematics who desire an introduction to the subject. Having studied the book, the reader will be able to comprehend research papers that use this mathematics and follow more advanced pure-mathematical expositions.

As modern technologies continue to develop and evolve, the ability of users to interface with new systems becomes a paramount concern. Research into new ways for humans to make use of advanced computers and other such technologies is necessary to fully realize the potential of 21st century tools. Human-Computer Interaction: Concepts, Methodologies, Tools, and Applications gathers research on user interfaces for advanced technologies and how these interfaces can facilitate new developments in the fields of robotics, assistive technologies, and computational intelligence. This four-volume reference contains cutting-edge research for computer scientists; faculty and students of robotics, digital science, and networked communications; and clinicians invested in assistive technologies. This seminal reference work includes

chapters on topics pertaining to system usability, interactive design, mobile interfaces, virtual worlds, and more.
Paths Toward Excellence and Equity
A Comparative Study
Differential Geometry and Its Applications
Kindergarten Through Grade Twelve
Geometry, Student Edition
Differential Geometry and Topology

Geometry: Concepts and Applications is designed to help you discover, learn, and apply geometry. You will be challenged to make connections from concrete examples to abstract concepts. The real-world photographs and realistic art will help you see geometry in your world. You will also have plenty of opportunities to review and use algebra concepts as you study geometry. And for those of you who love a good debate, you will find plenty of opportunities to flex your logical muscles. - p. iii.

The team of teachers and mathematicians who created Eureka Math believe that it's not enough for students to know the process for solving a problem; they need to know why that process works. That's why students who learn math with Eureka can solve real-world problems, even those they have never encountered before. The Study Guides are a companion to the Eureka Math program, whether you use it online or in print. The guides collect the key components of the curriculum for each grade in a single volume. They also unpack the standards in detail so that anyone—even non-Eureka users—can benefit. The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics. We're here to make sure you succeed with an ever-growing library of resources. Take advantage of the full set of Study Guides available for each grade, PK-12, or materials at eureka-math.org, such as free implementation and pacing guides, material lists, parent resources, and more.

Written for today's technology student, TECHNICAL CALCULUS WITH ANALYTIC GEOMETRY prepares you for your future courses! With an emphasis on applications, this mathematics text helps you learn calculus skills that are particular to technology. Clear presentation of concepts, detailed examples, marginal annotations, and step-by-step procedures enhance your understanding of difficult concepts. Notations that are frequently encountered in technology are used throughout to help you prepare for further courses in your career. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

- The only program that supports the Common Core State Standards throughout four-years of high school mathematics with an unmatched depth of resources and adaptive technology that helps you differentiate instruction for every student. * Connects students to math content with print, digital and interactive resources. * Prepares students to meet the rigorous Common Core Standards with aligned content and focus on Standards of Mathematical Practice. * Meets the needs of every student with resources that enable you to tailor your instruction at the classroom and individual level. * Assesses student mastery and achievement with dynamic, digital assessment and reporting. Includes Print Student Edition
Algorithms and Applications
Concepts and Applications. Study guide masters
Geometrical Methods of Mathematical Physics
Fundamental Concepts and Applications
Prentice Hall Mathematics
Stochastic and Integral Geometry

Praise for the first edition --

Early childhood mathematics is vitally important for young children's present and future educational success. Research demonstrates that virtually all young children have the capability to learn and become competent in mathematics. Furthermore, young children enjoy their early informal experiences with mathematics. Unfortunately, many children's potential in mathematics is not fully realized, especially those children who are economically disadvantaged. This is due, in part, to a lack of opportunities to learn mathematics in early childhood settings or through everyday experiences in the home and in their communities. Improvements in early childhood mathematics education can provide young children with the foundation for school success. Relying on a comprehensive review of the research, Mathematics Learning in Early Childhood lays out the critical areas that should be the focus of young children's early mathematics education, explores the extent to which they are currently being incorporated in early childhood settings, and identifies the changes needed to improve the quality of mathematics experiences for young children. This book serves as a call to action to improve the state of early childhood mathematics. It will be especially useful for policy makers and practitioners-those who work directly with children and their families in shaping the policies that affect the education of young children.

Stochastic geometry deals with models for random geometric structures. Its early beginnings are found in playful geometric probability questions, and it has vigorously developed during recent decades, when an increasing number of real-world applications in various sciences required solid mathematical foundations. Integral geometry studies geometric mean values with respect to invariant measures and is, therefore, the appropriate tool for the investigation of random geometric structures that exhibit invariance under translations or motions. Stochastic and Integral Geometry provides the mathematically oriented reader with a rigorous and detailed introduction to the basic stationary models used in stochastic geometry – random sets, point processes, random mosaics – and to the integral geometry that is needed for their investigation. The interplay between both disciplines is demonstrated by various fundamental results. A chapter on selected problems about geometric probabilities and an outlook to non-stationary models are included, and much additional information is given in the section notes.

This is a textbook on differential geometry well-suited to a variety of courses on this topic. For readers seeking an elementary text, the prerequisites are minimal and include plenty of examples and intermediate steps within proofs, while providing an invitation to more excursive applications and advanced topics. For readers bound for graduate school in math or physics, this is a clear, concise, rigorous development of the topic including the deep global theorems. For the benefit of all readers, the author employs various techniques to render the difficult abstract ideas herein more understandable and engaging. Over 300 color illustrations bring the mathematics to life, instantly clarifying concepts in ways that grayscale could not. Green-boxed definitions and purple-boxed theorems help to visually organize the mathematical content. Color is even used within the text to highlight logical relationships. Applications abound! The study of conformal and equiareal functions is grounded in its application to cartography. Evolutes, involutes and cycloids are introduced through Christiaan Huygens' fascinating story: in attempting to solve the famous longitude problem with a mathematically-improved pendulum clock, he invented mathematics that would later be applied to optics and gears. Clairaut's Theorem is presented as a conservation law for angular momentum. Green's Theorem makes possible a drafting tool called a planimeter. Foucault's Pendulum helps one visualize a parallel vector field along a latitude of the earth. Even better, a south-pointing chariot helps one visualize a parallel vector field along any curve in any surface. In truth, the most profound application of differential geometry is to modern physics, which is beyond the scope of this book. The GPS in any car wouldn't work without general relativity, formalized through the language of differential geometry. Throughout this book, applications, metaphors and visualizations are tools that motivate and clarify the rigorous mathematical content, but never replace it.

Geometry: Concepts and Applications, Practice Workbook
Differential Geometry and Lie Groups
Geometry: Concepts and Applications, Student Edition

Glencoe Geometry
Mathematics Framework for California Public Schools
McGraw-Hill Education Geometry Review and Workbook
This engaging review guide and workbook is the ideal tool for sharpening your Geometry skills! This review guide and workbook will help you strengthen your Geometry knowledge, and it will enable you to develop new math skills to excel in your high school classwork and on standardized tests. Clear and concise explanations will walk you step by step through each essential math concept. 500 practical review questions, in turn, provide extensive opportunities for you to practice your new skills. If you are looking for material based on national or state standards, this book is your ideal study tool! Features: •Aligned to national standards, including the Common Core State Standards, as well as the standards of non-Common Core states and Canada•Designed to help you excel in the classroom and on standardized tests•Concise, clear explanations offer step-by-step instruction so you can easily grasp key concepts•You will learn how to apply Geometry to practical situations•500 review questions provide extensive opportunities for you to practice what you've learned
Comprehensive instructional support for proof Multiple formats are supported through mastery including two column, paragraph, flow, and indirect proofs. Students learn to value the need to think logically and present ideas in a logical order. Solid coverage of both structure and applications Traditional geometry concepts and logical reasoning are emphasized throughout, while measurement and applications are integrated to motivate students via real-world connections. Algebra reviewed and integrated throughout Algebra 1 skills are reviewed at point-of-use, ensuring students maintain these skills. Algebra integration within coordinate geometry topics, plus probability and statistics connections, are found throughout.
Human faces are familiar to our visual systems. We easily recognize a person's face in arbitrary lighting conditions and in a variety of poses; detect small appearance changes; and notice subtle expression details. Can computer vision systems process face images as well as human vision systems can? Face image processing has potential applications in surveillance, image and video search, social networking and other domains. A comprehensive guide to this fascinating topic, this book provides a systematic description of modeling face geometry and appearance from images, including information on mathematical tools, physical concepts, image processing and computer vision techniques, and concrete prototype systems. The book will be an excellent reference for researchers and graduate students in computer vision, computer graphics and multimedia, as well as application developers who would like to gain a better understanding of the state of the art.
Geometry: Concepts and Applications, Study Guide WorkbookMcGraw-Hill Education
Bodies of Constant Width
Human-Computer Interaction: Concepts, Methodologies, Tools, and Applications
Applications and Connections
Handbook of Computational Geometry
Modern Geometry with Applications
Geometry: Version A
This book uses the publicly available TEDS-M data to answer such questions as: How does teacher education contribute to the learning outcomes of future teachers? Are there programs that are more successful than others in helping teachers learn to teach mathematics? How does the local and national policy environment contribute to teacher education outcomes? It invites readers to explore these questions across a large number of international settings. The importance of preparing future mathematics teachers has become a priority across many nations. Across the globe nations have allocated resources and expertise to this endeavour. Yet in spite of the importance accorded to teacher education not much is known about different approaches to preparing knowledgeable teachers and whether these approaches do in fact achieve their purpose. The Mathematics Teacher Education and Development Study (TEDS-M) is the first, and to date the only, cross-national study using scientific and representative samples to provide empirical data on the knowledge that future mathematics teachers of primary and secondary school acquire in their teacher education programs. The study addresses the central importance of teacher knowledge in learning to teach mathematics by examining variation in the nature and influence of teacher education programs within and across countries. The study collected data on teacher education programs structure, curriculum and opportunities to learn, on teacher educators' characteristics and beliefs, and on future mathematics teachers' individual characteristics, beliefs, and mathematics and pedagogical knowledge across 17 countries providing a unique opportunity to explore enduring questions in the field.
This is the first comprehensive monograph to thoroughly investigate constant width bodies, which is a classic area of interest within convex geometry. It examines bodies of constant width from several points of view, and, in doing so, shows surprising connections between various areas of mathematics. Concise explanations and detailed proofs demonstrate the many interesting properties and applications of these bodies. Numerous instructive diagrams are provided throughout to illustrate these concepts. An introduction to convexity theory is first provided, and the basic properties of constant width bodies are then presented. The book then delves into a number of related topics, which include Constant width bodies in convexity (sections and projections, complete and reduced sets, mixed volumes, and further partial fields) Sets of constant width in non-Euclidean geometries (in real Banach spaces, and in hyperbolic, spherical, and further non-Euclidean spaces) The concept of constant width in analysis (using Fourier series, spherical integration, and other related methods) Sets of constant width in differential geometry (using systems of lines and discussing notions like curvature, evolutes, etc.) Bodies of constant width in topology (hyperspaces, transnormal manifolds, fiber bundles, and related topics) The notion of constant width in discrete geometry (referring to geometric inequalities, packings and coverings, etc.) Technical applications, such as film projectors, the square-hole drill, and rotary engines Bodies of Constant Width: An Introduction to Convex Geometry with Applications will be a valuable resource for graduate and advanced undergraduate students studying convex geometry and related fields. Additionally, it will appeal to any mathematicians with a general interest in geometry.
An ideal program for struggling students, Geometry: Concepts and Applications covers all geometry concepts using an informal approach.
An ideal program for struggling students, Geometry: Concepts and Applications covers all geometry concepts using an informal approach. Help students obtain better understanding of geometry with the many detailed examples and clear and concise explanations found throughout each lesson. Help students prepare for tests with Glencoe 's exclusive Foldables study organizers. Build student's confidence in completing assignments with Personal Tutor, Concepts in Motion, and Homework Help with Extra Practice. Familiarize your students with the types of questions and formats they will face on local, state, and national tests with Preparing for Standardized Test Practice. Increase students access for additional geometry help with Glencoe 's extensive online resources including Self-Check Quizzes, Extra Examples, and Vocabulary Review aligned to their Glencoe Geometry: Concepts and Applications text.
Concepts and Applications
Concepts, Methodologies, Tools, and Applications
Merrill Geometry
Elementary Algebra 2e

Geometry

Geometry: Concepts and Applications, Noteables: Interactive Study Notebook with Foldables

Accessible, concise, and self-contained, this book offers an outstanding introduction to three related subjects: differential geometry, differential topology, and dynamical systems. Topics of special interest addressed in the book include Brouwer's fixed point theorem, Morse Theory, and the geodesic flow. Smooth manifolds, Riemannian metrics, affine connections, the curvature tensor, differential forms, and integration on manifolds provide the foundation for many applications in dynamical systems and mechanics. The authors also discuss the Gauss-Bonnet theorem and its implications in non-Euclidean geometry models. The differential topology aspect of the book centers on classical, transversality theory, Sard's theorem, intersection theory, and fixed-point theorems. The construction of the de Rham cohomology builds further arguments for the strong connection between the differential structure and the topological structure. It also furnishes some of the tools necessary for a complete understanding of the Morse theory. These discussions are followed by an introduction to the theory of hyperbolic systems, with emphasis on the quintessential role of the geodesic flow. The integration of geometric theory, topological theory, and concrete applications to dynamical systems set this book apart. With clean, clear prose and effective examples, the authors' intuitive approach creates a treatment that is comprehensible to relative beginners, yet rigorous enough for those with more background and experience in the field.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

This text assumes no prerequisites, offering an easy-to-read treatment with simple notation and clear, complete proofs. From motivation to definition, its explanations feature concrete examples and theorems. 1979 edition.

A Computational Perspective

Emerging Applications of Algebraic Geometry

Seeing, Doing, Understanding

Mathematics for Machine Learning

Concepts and Applications. Lesson planning guide

Exploring the Mathematical Education of Teachers Using TEDS-M Data