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Topology Now Classroom Resource Material

Robert Messer, Philip Straffin



Topology Now Classroom Resource Material:

Topology Now! Robert Messer, Philip Straffin, 2006-05-11 Topology is a branch of mathematics packed with intriguing concepts fascinating geometrical objects and ingenious methods for studying them The authors have written this textbook to make the material accessible to undergraduate students without requiring extensive prerequisites in upper level mathematics The approach is to cultivate the intuitive ideas of continuity convergence and connectedness so students can quickly delve into knot theory the topology of surfaces and three dimensional manifolds fixed points and elementary homotopy theory The fundamental concepts of point set topology appear at the end of the book when students can see how this level of abstraction provides a sound logical basis for the geometrical ideas that have come before This organization exposes students to the exciting world of topology now rather than later Students using this textbook should have some exposure to the geometry of objects in higher dimensional Euclidean spaces together with an appreciation of precise mathematical definitions and proofs

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Understanding Topology Shaun V. Ault, 2018-01-30 A fresh approach to topology makes this complex topic easier for students to master Topology the branch of mathematics that studies the properties of spaces that remain unaffected by stretching and other distortions can present significant challenges for undergraduate students of mathematics and the sciences *Understanding Topology* aims to change that The perfect introductory topology textbook *Understanding Topology* requires only a knowledge of calculus and a general familiarity with set theory and logic Equally approachable and rigorous the book's clear organization worked examples and concise writing style support a thorough understanding of basic topological principles Professor Shaun V Ault's unique emphasis on fascinating applications from mapping DNA to determining the shape of the universe will engage students in a way traditional topology textbooks do not This groundbreaking new text presents Euclidean abstract and basic algebraic topology explains metric topology vector spaces and dynamics point set topology surfaces knot theory graphs and map coloring the fundamental group and homology includes worked example problems solutions and optional advanced sections for

independent projects Following a path that will work with any standard syllabus the book is arranged to help students reach that Aha moment encouraging readers to use their intuition through local to global analysis and emphasizing topological invariants to lay the groundwork for algebraic topology [A Guide to Plane Algebraic Curves](#) Keith Kendig,2011 This Guide is a friendly introduction to plane algebraic curves It emphasizes geometry and intuition and the presentation is kept concrete You ll find an abundance of pictures and examples to help develop your intuition about the subject which is so basic to understanding and asking fruitful questions Highlights of the elementary theory are covered which for some could be an end in itself and for others an invitation to investigate further Proofs when given are mostly sketched some in more detail but typically with less References to texts that provide further discussion are often included Computer algebra software has made getting around in algebraic geometry much easier Algebraic curves and geometry are now being applied to areas such as cryptography complexity and coding theory robotics biological networks and coupled dynamical systems Algebraic curves were used in Andrew Wiles proof of Fermat s Last Theorem and to understand string theory you need to know some algebraic geometry There are other areas on the horizon for which the concepts and tools of algebraic curves and geometry hold tantalizing promise This introduction to algebraic curves will be appropriate for a wide segment of scientists and engineers wanting an entrance to this burgeoning subject [An Invitation to Knot Theory](#) Heather A. Dye,2018-09-03 The Only Undergraduate Textbook to Teach Both Classical and Virtual Knot Theory An Invitation to Knot Theory Virtual and Classical gives advanced undergraduate students a gentle introduction to the field of virtual knot theory and mathematical research It provides the foundation for students to research knot theory and read journal articles on their own Each chapter includes numerous examples problems projects and suggested readings from research papers The proofs are written as simply as possible using combinatorial approaches equivalence classes and linear algebra The text begins with an introduction to virtual knots and counted invariants It then covers the normalized f polynomial Jones polynomial and other skein invariants before discussing algebraic invariants such as the quandle and biquandle The book concludes with two applications of virtual knots textiles and quantum computation [Mathematical Reviews](#) ,2006 [Teaching Mathematics Through Games](#) Mindy Capaldi,2021-05-18 Active engagement is the key to learning You want your students doing something that stimulates them to ask questions and creates a need to know Teaching Mathematics Through Games presents a variety of classroom tested exercises and activities that provoke the active learning and curiosity that you hope to promote These games run the gamut from well known favorites like SET and Settlers of Catan to original games involving simulating structural inequality in New York or playing Battleship with functions The book contains activities suitable for a wide variety of college mathematics courses including general education courses math for elementary education probability calculus linear algebra history of math and proof based mathematics Some chapter activities are short term such as a drop in lesson for a day and some are longer including semester long projects All have been tested refined and include extensive

implementation notes Genre in the Classroom Ann M. Johns,2001-11-01 For the first time the major theoretical and pedagogical approaches to genre and related issues of social construction are presented in a single volume providing an overview of the state of the art for practitioners in applied linguistics ESL EFL pedagogies rhetoric and composition studies around the world Unlike volumes that present one theoretical stance this book attempts to give equal time to all theoretical and pedagogical camps Included are chapters by authors from the Sydney School the New Rhetoric and English for Specific Purposes as well as contributions from other practitioners who pose questions that cross theoretical lines Genre in the Classroom includes all of the major theoretical views of genre that influence pedagogical practice takes an international approach drawing from all parts of the world in which genre theory has been applied in the classroom Australia Canada Hong Kong the Middle East the United States features contributors who are all both theorists and classroom practitioners lending credibility and authenticity to the arguments combines theory and practice in every chapter showing how particular theoretical views influence classroom practice grounds pedagogical practices in their own regional and theoretical histories openly discusses problems and questions that genre theory raises and presents some of the solutions suggested and offers a concluding chapter that argues for two macro genres and with responses to this argument by noted genre theorists from three theoretical camps *Learning Resource Centers* Neville P. Pearson,Lucius A. Butler,1973 Gaming for Classroom-Based Learning: Digital Role Playing as a Motivator of Study Baek, Young Kyun,2010-05-31 As part of an international dialogue between researchers in educational technology this title investigates where games can motivate students to learn and improve their knowledge and skills

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