From Geometry To Topology H Graham Flegg

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MAA Notes - 1983

Basic Library List for Two-year Colleges - Mathematical Association of America 1980

Inhuman Nature - Jeffrey Jerome Cohen 2014
Collection of essays examining the ways in which humanity is enmeshed in its surroundings.
The Elements of Non-Euclidean Geometry - D. M.Y. Sommerville 2012-05-24
Renowned for its lucid yet meticulous exposition, this classic allows students to follow the development of non-Euclidean geometry from a fundamental analysis of the concept of parallelism to more advanced topics. 1914 edition. Includes 133 figures.
Of Synthetic Finance - Benjamin Lozano 2014-09-19
Synthetic finance revolutionizes materialism such that we can now create wealth in the process of universally distributing it. While financial innovation in global capitalism provided the conditions for the 2008 financial crisis, it has also engineered a set of financial technologies with universal distributive potential. This book explains this possibility and demonstrates how it can be achieved through a rigorous ontological exposition of the radical, nomadic, distributive power of synthetic finance. It also illustrates that Gilles Deleuze is the heterodox political economist who best reveals its profound material capacities. This book articulates an innovative method for the study of finance, fundamentally revaluates political economy as a discipline and practice, and inaugurates a research project from which derivative methodologies and approaches to critical finance can evolve. Of Synthetic Finance actualizes a new kind of heterodox political economy called speculative materialism, and advocates a radical project of speculative materialist financial engineering. Both of these are predicated on the deployment of the latent, nomadic, monstrous capacities of synthetic finance to create and universally distribute risk and cash flow. This book is a must read for anyone interested in critical finance, the financial crisis and the future of political economy.
Dynamic Patterns - Karen M'Closkey 2017-03-27
Dynamic Patterns explores the role of patterns in designed landscapes. Patterns are inherently relational, and the search for and the creation of patterns are endemic to many scientific and artistic endeavors. Recent advances in optical tools, sensors, and computing have expanded our understanding of patterns as a link between natural and cultural realms. Looking beyond the surface manifestation of pattern, M’Closkey and

VanDerSys delve into a multifaceted examination that explores new avenues for engagement with patterns using digital media. Examining the theoretical implications of pattern-making, they probe the potential of patterns to conjoin landscape's utilitarian and aesthetic functions. With full color throughout and over one hundred and twenty images, Dynamic Patterns utilizes work from a wide range of artists and designers to demonstrate how novel modes of visualization have facilitated new ways of seeing patterns and therefore of understanding and designing landscapes.

Space Structures - A. Loeb 2012-12-06

xiv aggregates: this touches on the very nature of things. The concept of statistical symmetry which Loeb develops is particularly important, it emphasizes the limitations in seemingly random aggregates and for permits general statements of which the crystallographer's sym metries are only special cases. The reductionist and holistic approaches to the world have been at war with each other since the times of the Greek philosophers and before. In nature, parts clearly do fit together into real structures, and the parts are affected by their environment. The problem is one of understanding. The mystery that remains lies largely in the nature of structural hierarchy, for the human mind can examine nature on many different scales sequentially but not simultaneously. Arthur Loeb's monograph is a fundamental one, but one can sense a devel opment from the relations between his zero-and three-dimensional cells to the far more complex world of organisms and concepts. It is structure that makes the difference between a cornfield and a cake, between an aggregate of cells and a human being, between a random group of human beings and a society. We can perceive anything only when we perceive its structure, and we think by structural analogy and comparison. Several books have been published showing the beauty of form in nature. This one has the beauty of a work of art, but it grows out of rigorous mathematics and from the simplest of bases-dimensional ity, extent and valency.

Topology and Geometry for Physicists - Charles Nash 2013-08-16

Written by physicists for physics students, this text assumes no detailed background in topology or geometry. Topics include differential forms, homotopy, homology, cohomology, fiber bundles, connection and covariant derivatives, and Morse theory. 1983 edition.

From Geometry to Topology - H. Graham Flegg 2012-03-08

Introductory text for first-year math students uses intuitive approach, bridges the gap from familiar concepts of geometry to topology. Exercises and Problems. Includes 101 black-and-white illustrations. 1974 edition.

SPAA - 1989

Library of Congress Catalogs - Library of Congress 1976

From Geometry to Topology - Graham Flegg 2001-01-01

Introductory text for first-year math students uses intuitive approach, bridges the gap from familiar concepts of geometry to topology. Exercises and Problems. Includes 101 black-and-white illustrations. 1974 edition.

Journal of the Pennsylvania Academy of Science - 1990

Proceedings of the 1989 ACM Symposium on Parallel Algorithms and Architectures, June 18-21, 1989, Santa Fe, New Mexico - 1989

Concepts & Images - Arthur Loeb 2012-12-06

1. Introduction . 1 2. Areas and Angles . . 6 3. Tessellations and Symmetry 14 4. The Postulate of Closest Approach 28 5. The Coexistence of Rotocenters 36 6. A Diophantine Equation and its Solutions 46 7. Enantiomorphy. . . . . 57 8. Symmetry Elements in the Plane 77 9. Pentagonal Tessellations . 89 10. Hexagonal Tessellations 101 11. Dirichlet Domain 106 12. Points and Regions 116 13. A Look at Infinity . 122 14. An Irrational Number 128 15. The Notation of Calculus 137 16. Integrals and Logarithms 142 17. Growth Functions . . . 149 18. Sigmoids and the Seventh-year Trifurcation, a Metaphor 159 19. Dynamic Symmetry and Fibonacci Numbers 167 20. The Golden Triangle 179 21. Quasi Symmetry 193 Appendix I: Exercise in Glide Symmetry . 205

Appendix II: Construction of Logarithmic Spiral . 207 Bibliography . 210 Index . . . . . 225 Concepts and Images is the result of twenty years of teaching at Harvard's Department of Visual and Environmental Studies in the Carpenter Center for the Visual Arts, a department devoted to turning out students articulate in images much as a language department teaches reading and expressing one self in words. It is a response to our students' requests for a "handout" and to l our colleagues' inquiries about the courses : Visual and Environmental Studies 175 (Introduction to Design Science), YES 176 (Synergetics, the Structure of Ordered Space), Studio Arts 125a (Design Science Workshop, Two-Dimension al), Studio Arts 125b (Design Science Workshop, Three-Dimensional),2 as well as my freshman seminars on Structure in Science and Art.

Advanced Euclidean Geometry - Roger A. Johnson 2013-01-08

This classic text explores the geometry of the triangle and the circle, concentrating on extensions of Euclidean theory, and examining in detail many relatively recent theorems. 1929 edition.

Library Recommendations for Undergraduate Mathematics - Mathematical Association of America. Committee on the Undergraduate Program in Mathematics 1992

Modern Geometries - James R. Smart 1998

This comprehensive, best-selling text focuses on the study of many different geometries -- rather than a single geometry -- and is thoroughly modern in its approach. Each chapter is essentially a short course on one aspect of modern geometry, including finite geometries, the geometry of transformations, convexity, advanced Euclidian geometry, inversion, projective geometry, geometric aspects of topology, and non-Euclidean geometries. This edition reflects the recommendations of the COMAP proceedings on Geometry's Future, the NCTM standards, and the Professional Standards for Teaching Mathematics. References to a new companion text, Active Geometry by David A. Thomas encourage students to explore the geometry of motion through the use of computer software. Using Active Geometry at the beginning of various sections allows professors to give students a somewhat more intuitive introduction using current technology before moving on to more abstract concepts and theorems.

National Union Catalog - 1973

Includes entries for maps and atlases.

Topology Now! - Robert Messer 2018-10-10

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.

Books in Print - 1991

Elementary Point-Set Topology - Andre L. Yandl 2016-04-10

In addition to serving as an introduction to the basics of point-set topology, this text bridges the gap between the elementary calculus sequence and higher-level mathematics courses. The versatile, original approach focuses on learning to read and write proofs rather than covering advanced topics. Based on lecture notes that were developed over many years at The University of Seattle, the treatment is geared toward undergraduate math majors and suitable for a variety of introductory courses. Starting with elementary concepts in logic and basic techniques of proof writing, the text defines topological and metric

spaces and surveys continuity and homeomorphism. Additional subjects include product spaces, connectedness, and compactness. The final chapter illustrates topology's use in other branches of mathematics with proofs of the fundamental theorem of algebra and of Picard's existence theorem for differential equations. "This is a back-to-basics introductory text in point-set topology that can double as a transition to proofs course. The writing is very clear, not too concise or too wordy. Each section of the book ends with a large number of exercises. The optional first chapter covers set theory and proof methods; if the students already know this material you can start with Chapter 2 to present a straight topology course, otherwise the book can be used as an introduction to proofs course also." — Mathematical Association of America

Subject Catalog - Library of Congress

Intuitive Concepts in Elementary Topology - B.H. Arnold 2015-02-23

Classroom-tested and much-cited, this concise text is designed for undergraduates. It offers a valuable and instructive introduction to the basic concepts of topology, taking an intuitive rather than an axiomatic viewpoint. 1962 edition.

Crocheting Adventures with Hyperbolic Planes - Daina Taimina 2018-02-19

Winner, Euler Book Prize, awarded by the Mathematical Association of America. With over 200 full color photographs, this non-traditional, tactile introduction to non-Euclidean geometries also covers early development of geometry and connections between geometry, art, nature, and sciences. For the crafter or would-be crafter, there are detailed instructions for how to crochet various geometric models and how to use them in explorations. New to the 2nd Edition; Daina Taimina discusses her own adventures with the hyperbolic planes as well as the experiences of some of her readers. Includes recent applications of hyperbolic geometry such as medicine, architecture, fashion & quantum computing.

AAAS Science Book List Supplement - Jill Storey 1978

Approximately 2700 titles arranged in classified order. Each entry gives bibliographical information, annotation, and reading levels. Author and title/subject indexes.

Mathematical Reviews - 2002

The Poetry of Charles Olson - Thomas F. Merrill 1982

Selection of Recent Books Published in Great Britainf1940-Apr. 1941 - 1975

Elemental Ecocriticism - Jeffrey Jerome Cohen 2015-12-23

For centuries it was believed that all matter was composed of four elements: earth, air, water, and fire in promiscuous combination, bound by love and pulled apart by strife. Elemental theory offered a mode of understanding materiality that did not center the cosmos around the human. Outgrown as a science, the elements are now what we build our houses against. Their renunciation has fostered only estrangement from the material world. The essays collected in Elemental Ecocriticism show how elemental materiality precipitates new engagements with the ecological. Here the classical elements reveal the vitality of supposedly inert substances (mud, water, earth, air), chemical processes (fire), and natural phenomena, as well as the promise in the abandoned and the unreal (ether, phlogiston, spontaneous generation). Decentering the human, this volume provides important correctives to the idea of the material world as mere resource. Three response essays meditate on the connections of this collaborative project to the framing of modern-day ecological concerns. A renewed intimacy with the elemental holds the potential of a more dynamic environmental ethics and the possibility of a reinvigorated materialism.

A First Course in Topology - Robert A Conover 2014-05-21

Students must prove all of the theorems in this undergraduate-level text, which features extensive outlines to assist in study and comprehension. Thorough and well-written, the treatment provides sufficient material for a one-year undergraduate course. The logical presentation anticipates students' questions, and complete definitions and expositions of topics

relate new concepts to previously discussed subjects. Most of the material focuses on point-set topology with the exception of the last chapter. Topics include sets and functions, infinite sets and transfinite numbers, topological spaces and basic concepts, product spaces, connectivity, and compactness. Additional subjects include separation axioms, complete spaces, and homotopy and the fundamental group. Numerous hints and figures illuminate the text. Dover (2014) republication of the edition originally published by The Williams & Wilkins Company, Baltimore, 1975. See every Dover book in print at www.doverpublications.com

The American Mathematical Monthly - 1983

Bulletin - Institute of Mathematics and Its Applications 1975

Bookseller and the Stationery Trades' Journal - 1975

The Mathematical Gazette - 1975

Weekly Record - 1974

Introduction to Topology - Theodore W. Gamelin 2013-04-22
This text explains nontrivial applications of metric space topology to analysis. Covers metric space, point-set topology, and algebraic topology. Includes exercises, selected answers, and 51 illustrations. 1983 edition.

A Combinatorial Introduction to Topology - Michael Henle 1994-01-01
Excellent text covers vector fields, plane homology and the Jordan Curve Theorem, surfaces, homology of complexes, more. Problems and exercises. Some knowledge of differential equations and multivariate calculus required.Bibliography. 1979 edition.

British Book News - 1975

Reshaping College Mathematics - Mathematical Association of America. Committee on the Undergraduate Program in Mathematics 1989