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SPAA - 1989

Introduction to Genomics - Arthur Lesk 2012
This book covers the latest techniques that enable us to study the genome in detail, the book explores what the genome tells us about life at the level of the molecule, the cell, and the organism
Inhuman Nature - Jeffrey Jerome Cohen 2014
Collection of essays examining the ways in which humanity is enmeshed in its surroundings.
Nicolas Chuquet, Renaissance Mathematician - Graham Flegg 2012-12-06
My attention was first drawn to Chuquet' s mathematical manuscript whilst undertaking the necessary research for the preparation of the Open University's History of Mathematics course, presented initially in 1974. It was whilst editing the English edition of Math~matiques et Math~maticiens (P. Dedron and J. Itard, trans. J. Field) that I noted that it was stated that "the whole manuscript -- comprises 324 folios, i. e. 648 pages", and that, in addition to the Triparty (by which the work is generally known) the manuscript includes sections on problems, on the application of algebraic methods to geometry, and on conunercial
Reshaping College Mathematics - Mathematical Association of America. Committee on the Undergraduate Program in Mathematics 1989

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.

A Mathematical History of the Golden Number - Roger Herz-Fischler 2013-12-31

This comprehensive study traces the historic development of division in extreme and mean ratio ("the golden number") from its first appearance in Euclid's Elements through the 18th century. Features numerous illustrations.

Visual Complex Analysis - Tristan Needham 1997

Now available in paperback, this successful radical approach to complex analysis replaces the standard calculational arguments with new geometric ones. With several hundred diagrams, and far fewer prerequisites than usual, this is the first visual intuitive introduction to complex analysis.Although designed for use by undergraduates in mathematics and science, the novelty of the approach will also interest professional mathematicians.

The Mathematical Gazette - 1975

British Book News - 1975

National Union Catalog - 1978

Includes entries for maps and atlases.

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

This excellent introduction to topology eases first-year math students and general readers into the subject by surveying its concepts in a descriptive and intuitive way, attempting to build a bridge from the familiar concepts of geometry to the formalized study of topology. The first three chapters focus on congruence classes defined by transformations in real Euclidean space. As the number of permitted transformations increases, these classes become larger, and their common topological properties become intuitively clear. Chapters 4–12 give a largely intuitive presentation of selected topics. In the remaining five chapters, the author moves to a more conventional presentation of continuity, sets, functions, metric spaces, and topological spaces. Exercises and Problems. 101 black-and-white illustrations. 1974 edition.

Mathematical Reviews - 2002

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.

The Poetry of Charles Olson - Thomas F. Merrill 1982

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.

Systems Thinking, Critical Realism and Philosophy - John Mingers 2014-04-24

Systems Thinking, Critical Realism and Philosophy: A Confluence of Ideas seeks to re-address the whole question of philosophy and systems thinking for the twenty first century and provide a new work that would be of value to both systems and philosophy. This is a highly opportune time when different fields – critical realism, philosophy of science and systems thinking – are all developing around the same set of concepts and yet not realizing it. This book will be of interest to the academic systems community worldwide and due to it's interdisciplinary coverage, it will also be of relevance to a wide range of scholars in other disciplines, particularly philosophy but also operational research, information systems, and sociology.

From Geometry to Topology - Graham Flegg 1974

This introduction to topology eases readers into the subject by building a bridge from the familiar concepts of geometry to the formalized study of topology. Focuses on congruence classes defined by transformations in real Euclidean space, continuity, sets, functions, metric spaces, and topological spaces, more. Exercises and Problems. Includes 101 black-and-white illustrations. 1974 edition.

5th International Conference on Biomedical Engineering in Vietnam - Vo Van Toi 2014-11-18

This volume presents the proceedings of the Fifth International Conference on the Development of Biomedical Engineering in Vietnam which was held from June 16-18, 2014 in Ho Chi Minh City. The volume reflects the progress of Biomedical Engineering and discusses problems and solutions. I aims identifying new challenges, and shaping future directions for research in biomedical engineering fields including medical instrumentation, bioinformatics, biomechanics, medical imaging, drug delivery therapy, regenerative medicine and entrepreneurship in medical devices.

Experiencing Geometry - David Wilson Henderson 2005

The distinctive approach of Henderson and Taimina's volume stimulates readers to develop a broader, deeper, understanding of mathematics through active experience--including discovery, discussion, writing fundamental ideas and learning about the history of those ideas. A series of interesting, challenging problems encourage readers to gather and discuss their reasonings and understanding. The volume provides an understanding of the possible shapes of the physical universe. The authors provide extensive information on historical strands of geometry, straightness on cylinders and cones and hyperbolic planes, triangles and congruencies, area and holonomy, parallel transport, SSS, ASS, SAA, and AAA, parallel postulates, isometries and patterns, dissection theory, square roots, pythagoras and similar triangles, projections of a sphere onto a plane, inversions in circles, projections (models) of hyperbolic planes, trigonometry and duality, 3-spheres and hyperbolic 3-spaces and polyhedra. For mathematics

educators and other who need to understand the meaning of geometry.

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.

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 - Lynn Arthur Steen 1992

Modern Calculus and Analytic Geometry - Richard A. Silverman 2014-04-15

A self-contained text for an introductory course, this volume places strong emphasis on physical applications. Key elements of differential equations and linear algebra are introduced early and are consistently referenced, all theorems are proved using elementary methods, and numerous worked-out examples appear throughout. The highly readable text approaches calculus from the student's viewpoint and points out potential stumbling blocks before they develop. A collection of more than 1,600 problems ranges from exercise material to exploration of new points of theory — many of the answers are found at the end of the book; some of them worked out fully so that the entire process can be followed. This well-organized, unified text is copiously illustrated, amply cross-referenced, and fully indexed.

'American Book Publishing Record' Cumulative - R. R. Bowker LLC 1976

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.

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.

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.

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.

Intuitive Concepts in Elementary Topology - B. H. Arnold 2011-06-01

"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. Well illustrated with figuresand diagrams, it can serve as either a primary text or a valuable supplement. 1962 edition"--

Bookseller and the Stationery Trades' Journal - 1975

Schaum's Outline of Theory and Problems of General Topology - Seymour Lipschutz 1965

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.

Subject Catalog - Library of Congress

The American Mathematical Monthly - 1983

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.

Library of Congress Catalogs - Library of Congress 1976

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.

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

Street-Fighting Mathematics - Sanjoy Mahajan 2010-03-05 An antidote to mathematical rigor mortis, teaching how to guess answers without needing a proof or an exact calculation. In problem solving, as in street fighting, rules are for fools: do whatever works—don't just stand there! Yet we often fear an unjustified leap even though it may land us on a correct result. Traditional mathematics teaching is largely about solving exactly stated problems exactly, yet life often hands us partly defined problems needing only moderately accurate solutions. This engaging book is an antidote to the rigor mortis brought on by too much mathematical rigor, teaching us how to guess answers without needing a proof or an exact calculation. In Street-Fighting Mathematics, Sanjoy Mahajan builds, sharpens, and demonstrates tools for educated guessing and down-and-dirty, opportunistic problem solving across diverse fields of knowledge—from mathematics to management. Mahajan describes six tools: dimensional analysis, easy cases, lumping, picture proofs, successive approximation, and reasoning by analogy. Illustrating each tool with numerous examples, he carefully separates the tool—the general principle—from the particular application so that the reader can most easily grasp the tool itself to use on problems of particular interest. Street-Fighting Mathematics grew out of a short course taught by the author at MIT for students ranging from first-year undergraduates to graduate students ready for careers in physics, mathematics, management, electrical engineering, computer science, and biology. They benefited from an approach that avoided rigor and taught them how to use mathematics to solve real problems. Street-Fighting Mathematics will appear in print and online under a Creative Commons Noncommercial Share Alike license.