

[Books] Analytic Geometry Gordon Fuller

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Analytic Geometry-Gordon Fuller 1979 Welcome to the study of analytic geometry. You are in good company. Throughout the past two thousand years, millions have studied some aspect of this subject.

Analytic Geometry-Gordon Fuller 1986

Analytic Geometry-Gordon Fuller 1967

Analytic Geometry-Gordon Fuller 1991-12 Tailored for a first course in the study of analytic geometry, the text emphasizes the essential elements of the subject and stresses the concepts needed in calculus. This new edition was revised to present the subject in a modern, updated manner. Color is used to highlight concepts. Technology is integrated with the text, with references to the Calculus Explorer and tips for using graphing calculators. Several new topics, including curve fitting involving mathematical modeling were added. Exercises were updated. New and varied applications from medicine to navigation to public health were added.

Analytic Geometry and Calculus-Gordon FULLER (and PARKER (Robert Marshall)) 1964

Analytic Geometry and Calculus-Gordon Fuller 1964

Analytic Geometry-Douglas F. Riddle 1995-10-01 This respected text makes extensive use of applications and features items such as historical vignettes to make the material useful and interesting. The text is written for the one-term analytic geometry course, often taught in sequence with college algebra, and is designed for students with a reasonably sound background in algebra, geometry, and trigonometry.

Elements of Descriptive Geometry-Albert Ensign Church 1902

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.

Expanded Cinema-Gene Youngblood 2020-03-03 Fiftieth anniversary reissue of the founding media studies book that helped establish media art as a cultural category. First published in 1970, Gene Youngblood’s influential Expanded Cinema was the first serious treatment of video, computers, and holography as cinematic technologies. Long considered the bible for media artists, Youngblood’s insider account of 1960s counterculture and the birth of cybernetics remains a mainstay reference in today’s hypermediated digital world. This fiftieth anniversary edition includes a new Introduction by the author that offers conceptual tools for understanding the sociocultural and sociopolitical realities of our present world. A unique eyewitness account of burgeoning experimental film and the birth of video art in the late 1960s, this far- ranging study traces the evolution of cinematic language to the end of fiction, drama, and realism. Vast in scope, its prescient formulations include “the paleocybernetic age,” “intermedia,” the “artist as design scientist,” the “artist as ecologist,” “synaesthetics and kinesthetics,” and “the technosphere: man/machine symbiosis.” Outstanding works are analyzed in detail. Methods of production are meticulously described, including interviews with artists and technologists of the period, such as Nam June Paik, Jordan Belson, Andy Warhol, Stan Brakhage, Carolee Schneemann, Stan VanDerBeek, Les Levine, and Frank Gillette. An inspiring Introduction by the celebrated polymath and designer R. Buckminster Fuller—a perfectly cut gem of countercultural thinking in itself—places Youngblood’s radical observations in comprehensive perspective. Providing an unparalleled historical documentation, Expanded Cinema clarifies a chapter of countercultural history that is still not fully represented in the arthistorical record half a century later. The book will also inspire the current generation of artists working in ever-newer expansions of the cinematic environment and will prove invaluable to all who are concerned with the technologies that are reshaping the nature of human communication.

Mathematics of Classical and Quantum Physics-Frederick W. Byron 2012-04-26 Graduate-level text offers unified treatment of mathematics applicable to many branches of physics. Theory of vector spaces, analytic function theory, theory of integral equations, group theory, and more. Many problems. Bibliography.

Evil Media-Matthew Fuller 2012-08-17 A philosophical manual of media power for the network age. Evil Media develops a philosophy of media power that extends the concept of media beyond its tried and trusted use in the games of meaning, symbolism, and truth. It addresses the gray zones in which media exist as corporate work systems, algorithms and data structures, twenty-first century self-improvement manuals, and pharmaceutical techniques. Evil Media invites the reader to explore and understand the abstract infrastructure of the present day. From search engines to flirting strategies, from the value of institutional stupidity to the malicious minutiae of databases, this book shows how the devil is in the details. The title takes the imperative “Don't be evil” and asks, what would be done any differently in contemporary computational and networked media were that maxim reversed. Media here are about much more and much less than symbols, stories, information, or communication: media do things. They incite and provoke, twist and bend, leak and manage. In a series of provocative stratagems designed to be used, Evil Media sets its reader an ethical challenge: either remain a transparent intermediary in the networks and chains of communicative power or become oneself an active, transformative medium.

The Mathematics of Diffusion-John Crank 1979 Though it incorporates much new material, this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained.

Problems on Mapping Class Groups and Related Topics-Benson Farb 2006-09-12 This book contains 23 papers of open problems and directions about mapping class groups and related topics. The papers focus on aspects deeply connected with geometric topology, combinatorial group theory and surrounding areas.

The Shape of Inner Space-Shing-Tung Yau 2010 Argues that geometry is fundamental to string theory--which posits that we live in a 10-dimensional existence--as well as the very nature of the universe, and explains where mathematics will take string theory next.

College Geometry-Howard Whitley Eves 1995 College Geometry is divided into two parts. Part I is a sequel to basic high school geometry and introduces the reader to some of the important modern extensions of elementary geometry- extension that have largely entered into the mainstream of mathematics. Part II treats notions of geometric structure that arose with the non-Euclidean revolution in the first half of the nineteenth century.

Solid Analytic Geometry-Abraham Adrian Albert 2016-07-19 Concise text covers basics of solid analytic geometry and provides ample material for a one-semester course. Additional chapters on spherical coordinates and projective geometry suitable for longer courses or supplementary study. 1949 edition.

Mathematical Problems in the Biological Sciences-Richard Bellman 1962-12-31

P-adic Monodromy and the Birch and Swinnerton-Dyer Conjecture-Workshop on p-Adic Monodromy 1994 The workshop aimed to deepen understanding of the interdependence between p-adic Hodge theory, analogues of the conjecture of Birch and Swinnerton-Dyer, p-adic uniformization theory, p-adic differential equations, and deformations of Gaels representations.

Statistical Analysis of Measurement Error Models and Applications-Philip J. Brown 1990 Measurement error models describe functional relationships among variables observed, subject to random errors of measurement. Examples include linear and nonlinear errors-in-variables regression models, calibration and inverse regression models, factor analysis models, latent structure models, and simultaneous equations models. Such models are used in a wide variety of areas, including medicine, the life sciences, econometrics, chemometrics, geology, sample surveys, and time series. Although the problem of estimating the parameters of such models exists in most scientific fields, there is a need for more sources that treat measurement error models as an area of statistical methodology.This volume is designed to address that need. This book contains the proceedings of an AMS-IMS-SIAM Joint Summer Research Conference in the Mathematical Sciences on Statistical Analysis of Measurement Error Models and Applications. The conference was held at Humboldt State University in Arcata, California in June 1989. The papers in this volume fall into four broad groups. The first group treats general aspects of the measurement problem and features a discussion of the history of measurement error models. The second group focuses on inference for the nonlinear measurement error model, an active area of research which generated considerable interest at the conference. The third group of papers examines computational aspects of estimation, while the final set studies estimators possessing robustness properties against deviations from common model assumptions.

Philosophy of Mathematics-Charles S. Peirce 2010-08-19 The philosophy of mathematics plays a vital role in the mature philosophy of Charles S. Peirce. Peirce received rigorous mathematical training from his father and his philosophy carries on in decidedly mathematical and symbolic veins. For Peirce, math was a philosophical tool and many of his most productive ideas rest firmly on the foundation of mathematical principles. This volume collects Peirce's most important writings on the subject, many appearing in print for the first time. Peirce's determination to understand matter, the cosmos, and "the grand design" of the universe remain relevant for contemporary students of science, technology, and symbolic logic.

Euclid's Window-Leonard Mlodinow 2010-09-28 Through Euclid's Window Leonard Mlodinow brilliantly and delightfully leads us on a journey through five revolutions in geometry, from the Greek concept of parallel lines to the latest notions of hyperspace. Here is an altogether new, refreshing, alternative history of math revealing how simple questions anyone might ask about space -- in the living room or in some other galaxy -- have been the hidden engine of the highest achievements in science and technology. Based on Mlodinow's extensive historical research; his studies alongside colleagues such as Richard Feynman and Kip Thorne; and interviews with leading physicists and mathematicians such as Murray Gell-Mann, Edward Witten, and Brian Greene, Euclid's Window is an extraordinary blend of rigorous, authoritative investigation and accessible, good-humored storytelling that makes a stunningly original argument asserting the primacy of geometry. For those who have looked through Euclid's Window, no space, no thing, and no time will ever be quite the same.

The Craft of Probabilistic Modelling-J. Gani 2012-12-06 This book brings together the personal accounts and reflections of nineteen mathematical model-builders, whose specialty is probabilistic modelling. The reader may well wonder why, apart from personal interest, one should commission and edit such a collection of articles. There are, of course, many reasons, but perhaps the three most relevant are: (i) a philosophical interest in conceptual models; this is an interest shared by everyone who has ever puzzled over the relationship between thought and reality; (ii) a conviction, not unsupported by empirical evidence, that probabilistic modelling has an important contribution to make to scientific research; and finally (iii) a curiosity, historical in its nature, about the complex interplay between personal events and the development of a field of mathematical research, namely applied probability. Let me discuss each of these in turn. Philosophical Abstraction, the formation of concepts, and the construction of conceptual models present us with complex philosophical problems which date back to Democritus, Plato and Aristotle. We have all, at one time or another, wondered just how we think; are our thoughts, concepts and models of reality approxim&tions to the truth, or are they simply functional constructs helping us to master our environment? Nowhere are these problems more apparent than in mathematical model ling, where idealized concepts and constructions replace the imperfect realities for which they stand.

The Years That Matter Most-Paul Tough 2019-09-10 “Indelible and extraordinary.”—Tara Westover, author of Educated: A Memoir, New York Times Book Review The best-selling author of How Children Succeed returns with a powerful, mind-changing inquiry into higher education in the United States Does college still work? Is the system designed just to protect the privileged and leave everyone else behind? Or can a college education today provide real opportunity to young Americans seeking to improve their station in life? The Years That Matter Most tells the stories of students trying to find their way, with hope, joy, and frustration, through the application process and into college. Drawing on new research, the book reveals how the landscape of higher education has shifted in recent decades and exposes the hidden truths of how the system works and whom it works for. And it introduces us to the people who really make higher education go: admissions directors trying to balance the class and balance the budget, College Board officials scrambling to defend the SAT in the face of mounting evidence that it favors the wealthy, researchers working to unlock the mysteries of the college-student brain, and educators trying to transform potential dropouts into successful graduates. With insight, humor, and passion, Paul Tough takes readers on a journey from Ivy League seminar rooms to community college welding shops, from giant public flagship universities to tiny experimental storefront colleges. Whether you are facing your own decision about college or simply care about the American promise of social mobility, The Years That Matter Most will change the way you think—not just about higher education, but about the nation itself.

Photonic Crystals-John D. Joannopoulos 2011-10-30 Since it was first published in 1995, Photonic Crystals has remained the definitive text for both undergraduates and researchers on photonic band-gap materials and their use in controlling the propagation of light. This newly expanded and revised edition covers the latest developments in the field, providing the most up-to-date, concise, and comprehensive book available on these novel materials and their applications. Starting from Maxwell's equations and Fourier analysis, the authors develop the theoretical tools of photonics using principles of linear algebra and symmetry, emphasizing analogies with traditional solid-state physics and quantum theory. They then investigate the unique phenomena that take place within photonic crystals at defect sites and surfaces, from one to three dimensions. This new edition includes entirely new chapters describing important hybrid structures that use band gaps or periodicity only in some directions: periodic waveguides, photonic-crystal slabs, and photonic-crystal fibers. The authors demonstrate how the capabilities of photonic crystals to localize light can be put to work in devices such as filters and splitters. A new appendix provides an overview of computational methods for electromagnetism. Existing chapters have been considerably updated and expanded to include many new three-dimensional photonic crystals, an extensive tutorial on device design using temporal coupled-mode theory, discussions of diffraction and refraction at crystal interfaces, and more. Richly illustrated and accessibly written, Photonic Crystals is an indispensable resource for students and researchers. Extensively revised and expanded Features improved graphics throughout Includes new chapters on photonic-crystal fibers and combined index-and band-gap-guiding Provides an introduction to coupled-mode theory as a powerful tool for device design Covers many new topics, including omnidirectional reflection, anomalous refraction and diffraction, computational photonics, and much more.

The Princeton Companion to Mathematics-Timothy Gowers 2010-07-18 This is a one-of-a-kind reference for anyone with a serious interest in mathematics. Edited by Timothy Gowers, a recipient of the Fields Medal, it presents nearly two hundred entries, written especially for this book by some of the world's leading mathematicians, that introduce basic mathematical tools and vocabulary; trace the development of modern mathematics; explain essential terms and concepts; examine core ideas in major areas of mathematics; describe the achievements of scores of famous mathematicians; explore the impact of mathematics on other disciplines such as biology, finance, and music—and much, much more. Unparalleled in its depth of coverage, The Princeton Companion to Mathematics surveys the most active and exciting branches of pure mathematics. Accessible in style, this is an indispensable resource for undergraduate and graduate students in mathematics as well as for researchers and scholars seeking to understand areas outside their specialties. Features nearly 200 entries, organized thematically and written by an international team of distinguished contributors Presents major ideas and branches of pure mathematics in a clear, accessible style Defines and explains important mathematical concepts, methods, theorems, and open problems Introduces the language of mathematics and the goals of mathematical research Covers number theory, algebra, analysis, geometry, logic, probability, and more Traces the history and development of modern mathematics Profiles more than ninety-five mathematicians who influenced those working today Explores the influence of mathematics on other disciplines Includes bibliographies, cross-references, and a comprehensive index Contributors incude: Graham Allan, Noga Alon, George Andrews, Tom Archibald, Sir Michael Atiyah, David Aubin, Joan Bagaria, Keith Ball, June Barrow-Green, Alan Beardon, David D. Ben-Zvi, Vitaly Bergelson, Nicholas Bingham, Béla Bollobás, Henk

Bos, Bodil Branner, Martin R. Bridson, John P. Burgess, Kevin Buzzard, Peter J. Cameron, Jean-Luc Chabert, Eugenia Cheng, Clifford C. Cocks, Alain Connes, Leo Corry, Wolfgang Coy, Tony Crilly, Serafina Cuomo, Mihalis Dafermos, Partha Dasgupta, Ingrid Daubechies, Joseph W. Dauben, John W. Dawson Jr., Francois de Gandt, Persi Diaconis, Jordan S. Ellenberg, Lawrence C. Evans, Florence Fasanelli, Anita Burdman Feferman, Solomon Feferman, Charles Fefferman, Della Fenster, José Ferreirós, David Fisher, Terry Gannon, A. Gardiner, Charles C. Gillispie, Oded Goldreich, Catherine Goldstein, Fernando Q. Gouvêa, Timothy Gowers, Andrew Granville, Ivor Grattan-Guinness, Jeremy Gray, Ben Green, Ian Grojnowski, Niccolò Guicciardini, Michael Harris, Ulf Hashagen, Nigel Higson, Andrew Hodges, F. E. A. Johnson, Mark Joshi, Kiran S. Kedlaya, Frank Kelly, Sergiu Klainerman, Jon Kleinberg, Israel Kleiner, Jacek Klinowski, Eberhard Knobloch, János Kollár, T. W. Körner, Michael Krivelevich, Peter D. Lax, Imre Leader, Jean-François Le Gall, W. B. R. Lickorish, Martin W. Liebeck, Jesper Lützen, Des MacHale, Alan L. Mackay, Shahn Majid, Lech Maligranda, David Marker, Jean Mawhin, Barry Mazur, Dusa McDuff, Colin McLarty, Bojan Mohar, Peter M. Neumann, Catherine Nolan, James Norris, Brian Osserman, Richard S. Palais, Marco Panza, Karen Hunger Parshall, Gabriel P. Paternain, Jeanne Peiffer, Carl Pomerance, Helmut Pulte, Bruce Reed, Michael C. Reed, Adrian Rice, Eleanor Robson, Igor Rodnianski, John Roe, Mark Ronan, Edward Sandifer, Tilman Sauer, Norbert Schappacher, Andrzej Schinzel, Erhard Scholz, Reinhard Siegmund-Schultze, Gordon Slade, David J. Spiegelhalter, Jacqueline Stedall, Arild Stubhaug, Madhu Sudan, Terence Tao, Jamie Tappenden, C. H. Taubes, Rüdiger Thiele, Burt Totaro, Lloyd N. Trefethen, Dirk van Dalen, Richard Weber, Dominic Welsh, Avi Wigderson, Herbert Wilf, David Wilkins, B. Yandell, Eric Zaslow, Doron Zeilberger

Foliations and the Geometry of 3-Manifolds-Danny Calegari 2007-05-17 This unique reference, aimed at research topologists, gives an exposition of the 'pseudo-Anosov' theory of foliations of 3-manifolds. This theory generalizes Thurston's theory of surface automorphisms and reveals an intimate connection between dynamics, geometry and topology in 3 dimensions. Significant themes returned to throughout the text include the importance of geometry, especially the hyperbolic geometry of surfaces, the importance of monotonicity, especially in 1-dimensional and co-dimensional dynamics, and combinatorial approximation, using finite combinatorial objects such as train-tracks, branched surfaces and hierarchies to carry more complicated continuous objects.

Calculus and Analytical Geometry-Varberg 1996-10

Biophysics-William Bialek 2012-12-17 Interactions between the fields of physics and biology reach back over a century, and some of the most significant developments in biology--from the discovery of DNA's structure to imaging of the human brain--have involved collaboration across this disciplinary boundary. For a new generation of physicists, the phenomena of life pose exciting challenges to physics itself, and biophysics has emerged as an important subfield of this discipline. Here, William Bialek provides the first graduate-level introduction to biophysics aimed at physics students. Bialek begins by exploring how photon counting in vision offers important lessons about the opportunities for quantitative, physics-style experiments on diverse biological phenomena. He draws from these lessons three general physical principles--the importance of noise, the need to understand the extraordinary performance of living systems without appealing to finely tuned parameters, and the critical role of the representation and flow of information in the business of life. Bialek then applies these principles to a broad range of phenomena, including the control of gene expression, perception and memory, protein folding, the mechanics of the inner ear, the dynamics of biochemical reactions, and pattern formation in developing embryos. Featuring numerous problems and exercises throughout, Biophysics emphasizes the unifying power of abstract physical principles to motivate new and novel experiments on biological systems. Covers a range of biological phenomena from the physicist's perspective Features 200 problems Draws on statistical mechanics, quantum mechanics, and related mathematical concepts Includes an annotated bibliography and detailed appendixes Instructor's manual (available only to teachers)

The Grid Book-Hannah Higgins 2009 Ten grids that changed the world: the emergence and evolution of the most prominent visual structure in Western culture.

The Chemical History of Color-Mary Virginia Orna 2012-10-05 In this brief, Mary Virginia Orna details the history of color from the chemical point of view. Beginning with the first recorded uses of color and ending in the development of our modern chemical industry, this rich, yet concise exposition shows us how color pervades every aspect of our lives. Our consciousness, our perceptions, our useful appliances and tools, our playthings, our entertainment, our health, and our diagnostic apparatus - all involve color and are based in no small part on chemistry.

Calculus: A Liberal Art-W.M. Priestley 2012-12-06 Presenting mathematics as forming a natural bridge between the humanities and the sciences, this book makes calculus accessible to those in the liberal arts. Much of the necessary geometry and algebra are exposed through historical development, and a section on the development of calculus offers insights into the place of mathematics in the history of thought.

The Origin of Consciousness in the Breakdown of the Bicameral Mind-Julian Jaynes 2000-08-15 National Book Award Finalist: "This man's ideas may be the most influential, not to say controversial, of the second half of the twentieth century."—Columbus Dispatch At the heart of this classic, seminal book is Julian Jaynes's still-controversial thesis that human consciousness did not begin far back in animal evolution but instead is a learned process that came about only three thousand years ago and is still developing. The implications of this revolutionary scientific paradigm extend into virtually every aspect of our psychology, our history and culture, our religion—and indeed our future. "Don't be put off by the academic title of Julian Jaynes's The Origin of Consciousness in the Breakdown of the Bicameral Mind. Its prose is always lucid and often lyrical...he unfolds his case with the utmost intellectual rigor."—The New York Times "When Julian Jaynes . . . speculates that until late in the twentieth millennium BC men had no consciousness but were automatically obeying the voices of the gods, we are astounded but compelled to follow this remarkable thesis."—John Updike, The New Yorker "He is as startling as Freud was in The Interpretation of Dreams, and Jaynes is equally as adept at forcing a new view of known human behavior."—American Journal of Psychiatry

College Algebra-Gordon Fuller 1982-01-01

Geometry Civilized-J. L. Heilbron 2000 Geometry Civilized is a unique combination of history and mathematics. It contains a full introduction to plane geometry and trigonometry within a fascinating historical framework that sets off the technical material. This approach to geometrical ideas gives the book its unique, readable style. The author has included a wide range of unusual and engaging geometric problems, many of which are taken from practical applications, drawn from sources ranging from ancient to modern. The study of geometry has been an important element of education in Europe since the time of the Greeks. This book helps us to understand why such emphasis has been placed on obtaining a good understanding of geometry. But the history presented here is not confined to the Western tradition. Examples drawn from other cultures, particularly Chinese and Indian, underscore the peculiarities of the geometry we have inherited from the Greeks, and thereby make Euclid's approach more accessible. Book reviews from the hardback: 'He has written a marvellous tale of how, throughout much of recorded history, geometrical thinking and civilisation have been closely intertwined. ...Definitely a book to dip into and reflect on a superior form of brainfood for the beach this summer perhaps? Heilbron's enthusiasm is contagious.' Ian Stewart, New Scientist 'The book is wonderfully illustrated. There are diagrams on almost every page, apt illustrations from older books, and well chosen photographs, together with eight colour plates. The appearance of the book is quite seductive, for which Oxford University Press should be congratulated.' Jeremy Gray, Nature 'This is a handsome book, well researched and entertainingly written. It shows how powerfully a historically informed account can communicate. If you thought Euclidean geometry was something only your great-grandparents did - try it, you will be surprised.' Bjune Barrow-Green, The TIMES Higher Education Supplement

Suspension Geometry and Computation-John C. Dixon 2009-10-27 Revealing suspension geometry design methods in unique detail, John Dixon shows how suspension properties such as bump steer, roll steer, bump camber, compliance steer and roll centres are analysed and controlled by the professional engineer. He emphasizes the physical understanding of suspension parameters in three dimensions and methods of their calculation, using examples, programs and discussion of computational problems. The analytical and design approach taken is a combination of qualitative explanation, for physical understanding, with algebraic analysis of linear and non-linear coefficients, and detailed discussion of computer simulations and related programming methods. Includes a detailed and comprehensive history of suspension and steering system design, fully illustrated with a wealth of diagrams Explains suspension characteristics and suspension geometry coefficients, providing a unique and in-depth understanding of suspension design not found elsewhere. Describes how to obtain desired coefficients and the limitations of particular suspension types, with essential information for suspension designers, chassis technicians and anyone else with an interest in suspension characteristics and vehicle dynamics. Discusses the use of computers in suspension geometry analysis, with programming techniques and examples of suspension solution, including advanced discussion of three-dimensional computational geometry applied to suspension design. Explains in detail the direct and iterative solutions of suspension geometry.

Combinatorial Identities for Stirling Numbers-Jocelyn Quaintance 2015-10-27 "This book is a unique work which provides an in-depth exploration into the mathematical expertise, philosophy, and knowledge of H W Gould. It is written in a style that is accessible to the reader with basic mathematical knowledge, and yet contains material that will be of interest to the specialist in enumerative combinatorics. This book begins with exposition on the combinatorial and algebraic techniques that Professor Gould uses for proving binomial identities. These techniques are then applied to develop formulas which relate Stirling numbers of the second kind to Stirling numbers of the first kind. Professor Gould's techniques also provide connections between both types of Stirling numbers and Bernoulli numbers. Professor Gould believes his research success comes from his intuition on how to discover combinatorial identities. This book will appeal to a wide audience and may be used either as lecture notes for a beginning graduate level combinatorics class, or as a research supplement for the specialist in enumerative combinatorics."--

Handbook of Mathematics for Engineers and Scientists-Andrei D. Polyani 2006-11-27 The Handbook of Mathematics for Engineers and Scientists covers the main fields of mathematics and focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology. To accommodate different mathematical backgrounds, the preeminent authors outline the material in a simplified, schematic manner, avoiding special terminology wherever possible. Organized in ascending order of complexity, the material is divided into two parts. The first part is a coherent survey of the most important definitions, formulas, equations, methods, and theorems. It covers arithmetic, elementary and analytic geometry, algebra, differential and integral calculus, special functions, calculus of variations, and probability theory. Numerous specific examples clarify the methods for solving problems and equations. The second part provides many in-depth mathematical tables, including those of exact solutions of various types of equations. This concise, comprehensive compendium of mathematical definitions, formulas, and theorems provides the foundation for exploring scientific and technological phenomena.

General Theory of Knowledge-M. Schlick 2012-12-06 to that goal, and it is hoped that it will incorporate further works dealing in an exact way with interesting philosophical issues. Zürich, April 1973 Mario Bunge From the Preface to the First Edition It may seem odd that a series of works devoted to the natural sciences should include - indeed begin with - a volume on philosophy. Today, of course, it is generally agreed that philosophy and natural science are perfectly compatible. But to grant the theory of knowledge such a prominent position implies not only that these two fields are compatible, but that there is a natural connection between them. Thus the inclusion of this book in the series can be justified only if such an intimate relation of mutual dependence and interpenetration really does exist. Without anticipating what is to come, the author would like first to explain his point of view on the relationship between epistemology and the sciences, and in so doing make clear at the outset the method to be followed in this book. It is my view - which I have already expressed elsewhere and which I never tire of repeating - that philosophy is not a separate science to be placed alongside of or above the individual disciplines. Rather, the philosophical element is present in all of the sciences; it is their true soul, and only by virtue of it are they sciences at all.

The Handbook of Science and Technology Studies-Ulrike Felt 2016-12-23 The fourth edition of an authoritative overview, with all new chapters that capture the state of the art in a rapidly growing field.

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