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[Karl Marx](#) Cambridge University Press
Optimum Design 2000

Further Pure Mathematics SAGE

Expert guidance and essential practice questions to help you succeed when taking both the UKCAT and BMAT. An Introduction to Manifolds Oxford University Press
"Magical Mathematics reveals the secrets of amazing, fun-to-perform card tricks--and the profound mathematical ideas behind them--that will astound even the most accomplished magician. Persi Diaconis and Ron Graham provide easy, step-by-step instructions for each trick, explaining how to set up the effect and offering tips on what to say and do while performing it. Each card trick introduces a new mathematical idea, and varying the tricks in turn takes readers to the very threshold of today's mathematical knowledge. For example, the Gilbreath principle--a fantastic effect where the cards remain in control despite being shuffled--is found to share an intimate connection with the Mandelbrot set. Other card tricks link to the mathematical secrets of combinatorics, graph theory, number theory, topology, the Riemann hypothesis, and even Fermat's last theorem. Diaconis and Graham are mathematicians as well as skilled performers with decades of professional experience between them. In this book they share a wealth of conjuring lore, including some closely guarded secrets of legendary magicians. Magical Mathematics covers the mathematics of juggling and shows how the I Ching connects to the history of probability and magic tricks both old and new. It tells the stories--and reveals the best tricks--of the eccentric and brilliant inventors of mathematical magic. Magical Mathematics exposes old gambling secrets through the mathematics of shuffling cards, explains the classic street-gambling scam

of three-card monte, traces the history of mathematical magic back to the thirteenth century and the oldest mathematical trick--and much more"--
A Course in Combinatorics Courier Dover Publications
Manifolds, the higher-dimensional analogs of smooth curves and surfaces, are fundamental objects in modern mathematics. Combining aspects of algebra, topology, and analysis, manifolds have also been applied to classical mechanics, general relativity, and quantum field theory. In this streamlined introduction to the subject, the theory of manifolds is presented with the aim of helping the reader achieve a rapid mastery of the essential topics. By the end of the book the reader should be able to compute, at least for simple spaces, one of the most basic topological invariants of a manifold, its de Rham cohomology. Along the way, the reader acquires the knowledge and skills necessary for further study of geometry and topology. The requisite point-set topology is included in an appendix of twenty pages; other appendices review facts from real analysis and linear algebra. Hints and solutions are provided to many of the exercises and problems. This work may be used as the text for a one-semester graduate or advanced undergraduate course, as well as by students engaged in self-study. Requiring only minimal undergraduate prerequisites, 'Introduction to Manifolds' is also an excellent foundation for Springer's GTM 82, 'Differential Forms in Algebraic Topology'.

Math Bytes Springer Science & Business Media
Seventh edition of a classic elementary number theory book.

Passing the UKCAT and BMAT 2012 UCL Press
Showing you how to take a structured and organized approach to a wide range of literature review types, this book helps you to choose which approach is right for your research. Packed with constructive tools, examples, case studies and hands-on exercises, the book covers the full range of literature review techniques. New to This Edition: Full re-organization takes you step-by-step through the process from beginning to end New chapter showing you how to choose the right method for your project Practical guidance on integrating qualitative and quantitative data New coverage of rapid reviews Comprehensive inclusion of literature review tools, including concept analysis, scoping and mapping With an emphasis on the practical skills, this guide is essential for any student or researcher needing to get from first steps to a successful literature review.
Magical Mathematics Springer Science & Business Media

This new edition illustrates the power of linear algebra in the study of graphs. The emphasis on matrix techniques is greater than in other texts on algebraic graph theory. Important matrices associated with graphs (for example, incidence, adjacency and Laplacian matrices) are treated in detail. Presenting a useful overview of selected topics in algebraic graph theory, early chapters of the text focus on regular graphs, algebraic connectivity, the distance matrix of a tree, and its generalized version for arbitrary graphs, known as the resistance matrix. Coverage of later topics include Laplacian eigenvalues of threshold graphs, the positive definite completion problem and matrix games based on a graph. Such an extensive coverage of the subject area provides a welcome prompt for further exploration. The inclusion of exercises enables practical learning throughout the book. In the new edition, a new chapter is added on the line graph of a tree, while some results in Chapter 6 on Perron-Frobenius theory are reorganized. Whilst this book will be invaluable to students and researchers in graph theory and combinatorial matrix theory, it will also benefit readers in the sciences and engineering.

Deep Learning Interviews Cambridge University Press
This Element presents one of the most recent developments in network science in a highly accessible style. This Element will be of interest to interdisciplinary scientists working in network science, in addition to mathematicians working in discrete topology and geometry and physicists working in quantum gravity.

The Times Good University Guide 2007 MDPI
This textbook is a completely revised, updated, and expanded English edition of the important *Analyse fonctionnelle* (1983). In addition, it contains a wealth of problems and exercises (with solutions) to guide the reader. Uniquely, this book presents in a coherent, concise and unified way the main results from functional analysis together with the main results from the theory of partial differential equations (PDEs). Although there are many books on functional analysis and many on PDEs, this is the first to cover both of these closely connected topics. Since the French book was first published, it has been translated into Spanish, Italian, Japanese, Korean,

Romanian, Greek and Chinese. The English edition makes a welcome addition to this list.

Optimum Design 2000 Springer Science & Business Media

This book is an introduction to the language and standard proof methods of mathematics. It is a bridge from the computational courses (such as calculus or differential equations) that students typically encounter in their first year of college to a more abstract outlook. It lays a foundation for more theoretical courses such as topology, analysis and abstract algebra. Although it may be more meaningful to the student who has had some calculus, there is really no prerequisite other than a measure of mathematical maturity.

Design of Comparative Experiments Bloomsbury Publishing

The book's contents is a large inventory of numerous topics relevant to DL job interviews and graduate level exams. That places this work at the forefront of the growing trend in science to teach a core set of practical mathematical and computational skills. It is widely accepted that the training of every computer scientist must include the fundamental theorems of ML, and AI appears in the curriculum of nearly every university. This volume is designed as an excellent reference for graduates of such programs.

An Introduction to Homological Algebra Springer Science & Business Media

Projective geometry is not only a jewel of mathematics, but has also many applications in modern information and communication science. This book presents the foundations of classical projective and affine geometry as well as its important applications in coding theory and cryptography. It also could serve as a first acquaintance with diagram geometry. Written in clear and contemporary language with an entertaining style and around 200 exercises, examples and hints, this book is ideally suited to be used as a textbook for study in the classroom or on its own.

Book of Proof Cambridge University Press

This best-selling guide will help you get to grips with the larger themes and issues behind historical study, while also showing you how to formulate your own ideas in a clear, analytical style. Fully updated throughout, further advice on using web-based sources and avoiding plagiarism will equip you with the tools you need to succeed on your course.

An Introduction To Chaotic Dynamical Systems Springer Nature

Teachers spend much of their time on assessment, yet many higher education teachers have received minimal guidance on assessment design and marking. This means assessment can often be a source of stress and frustration. Assessment and Feedback in Higher Education aims to solve these problems.

Offering a concise overview of assessment theory and practice, this guide provides teachers with the help they need.

Higher Order Networks: An Introduction to Simplicial Complexes Harvard University Press

Since 1980, the number of people in U.S. prisons has increased more than 450%. Despite a crime rate that has been falling steadily for decades, California has led the way in this explosion, with what a state analyst called "the biggest prison building project in the history of the world." Golden Gulag provides the first detailed explanation for that buildup by looking at how political and economic forces, ranging from global to local, conjoined to produce the prison boom. In an informed and impassioned account, Ruth Wilson Gilmore examines this issue through statewide, rural, and urban perspectives to explain how the expansion developed from surpluses of finance capital, labor, land, and state capacity. Detailing crises that hit California's economy with particular ferocity, she argues that defeats of radical struggles, weakening of labor, and shifting patterns of capital investment have been key conditions for prison growth. The results—a vast and expensive prison system, a huge number of incarcerated young people of color, and the increase in punitive justice such as the "three strikes" law—pose profound and troubling questions for the future of California, the United States, and the world. Golden Gulag provides a rich context for this complex dilemma, and at the same time challenges many cherished assumptions about who benefits and who suffers from the state's commitment to prison expansion.

Data Analysis for Social Science UCL Press

This book is renowned as the most comprehensive yet easy-to-use guide to referencing available. Tutors rely on the advice to guide their students in the skills of identifying and referencing information sources and avoiding plagiarism. This new edition has new and expanded content, especially in relation to latest electronic sources.

Assessment and Feedback in Higher Education: A Guide for Teachers Bloomsbury Publishing

Although many Bayesian Network (BN) applications are now in everyday use, BNs have not yet achieved mainstream penetration. Focusing on practical real-world problem solving and model building, as opposed to algorithms and theory, Risk Assessment and Decision Analysis with Bayesian Networks explains how to incorporate knowledge with data to develop and use

(Bayesian) causal models of risk that provide powerful insights and better decision making. Provides all tools necessary to build and run realistic Bayesian network models Supplies extensive example models based on real risk assessment problems in a wide range of application domains provided; for example, finance, safety, systems reliability, law, and more Introduces all necessary mathematics, probability, and statistics as needed The book first establishes the basics of probability, risk, and building and using BN models, then goes into the detailed applications. The underlying BN algorithms appear in appendices rather than the main text since there is no need to understand them to build and use BN models. Keeping the body of the text free of intimidating mathematics, the book provides pragmatic advice about model building to ensure models are built efficiently. A dedicated website, www.BayesianRisk.com, contains executable versions of all of the models described, exercises and worked solutions for all chapters, PowerPoint slides, numerous other resources, and a free downloadable copy of the AgenaRisk software.

Functional Analysis, Sobolev Spaces and Partial Differential Equations CRC Press

Gareth Stedman Jones returns Karl Marx to his nineteenth-century world, before later inventions transformed him into Communism's patriarch and fierce lawgiver. He shows how Marx adapted the philosophies of Kant, Hegel, Feuerbach, and others into ideas that would have—in ways inconceivable to Marx—an overwhelming impact in the twentieth century.

The Higher Arithmetic Palgrave Macmillan

This book should be on the shelf of every practising statistician who designs experiments. Good design considers units and treatments first, and then allocates treatments to units. It does not choose from a menu of named designs. This approach requires a notation for units that does not depend on the treatments applied. Most structure on the set of observational units, or on the set of treatments, can be defined by factors. This book develops a coherent framework for thinking about factors and their relationships, including the use of Hasse diagrams. These are used to elucidate structure, calculate degrees of freedom and allocate treatment subspaces to appropriate strata. Based on a one-term course the author has taught since 1989, the book is ideal for advanced undergraduate and beginning graduate courses. Examples,

exercises and discussion questions are drawn from a wide range of real applications: from drug development, to agriculture, to manufacturing.

Golden Gulag Princeton University Press

In the early decades of the twentieth century, engagement with science was commonly used as an emblem of modernity. This phenomenon is now attracting increasing attention in different historical specialties. *Being Modern* builds on this recent scholarly interest to explore engagement with science across culture from the end of the nineteenth century to approximately 1940. Addressing the breadth of cultural forms in Britain and the western world from the architecture of Le Corbusier to working class British science fiction, *Being Modern* paints a rich picture. Seventeen distinguished contributors from a range of fields including the cultural study of science and technology, art and architecture, English culture and literature examine the issues involved. The book will be a valuable resource for students, and a spur to scholars to further examination of culture as an interconnected web of which science is a critical part, and to supersede such tired formulations as 'Science and culture'.