

More Mathematical People OBE R

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What is Mathematics? - Richard Courant 1978

The People's Illustrated Dictionary of the English Language - Noah Webster 1874

NASA EP. - United States. National Aeronautics and Space Administration 1964

Mathematical Dictionary and Cyclopedia of Mathematical Science - Charles Davies 1865

High School Mathematics at Work - National Research Council 1998-05-27

Traditionally, vocational mathematics and precollege mathematics have been separate in schools. But the technological world in which today's students will work and live calls for increasing connection between mathematics and its applications. Workplace-based mathematics may be good mathematics for everyone. High School Mathematics at Work illuminates the interplay between technical and academic mathematics. This collection of thought-provoking essays--by mathematicians, educators, and other experts--is enhanced with illustrative tasks from workplace and everyday contexts that suggest ways to strengthen high

school mathematical education. This important book addresses how to make mathematical education of all students meaningful--how to meet the practical needs of students entering the work force after high school as well as the needs of students going on to postsecondary education. The short readable essays frame basic issues, provide background, and suggest alternatives to the traditional separation between technical and academic mathematics. They are accompanied by intriguing multipart problems that illustrate how deep mathematics functions in everyday settings--from analysis of ambulance response times to energy utilization, from buying a used car to "rounding off" to simplify problems. The book addresses the role of standards in mathematics education, discussing issues such as finding common ground between science and mathematics education standards, improving the articulation from school to work, and comparing SAT results across settings. Experts discuss how to develop curricula so that students learn to solve problems they are likely to encounter in life--while also providing them with approaches to unfamiliar problems. The book also addresses how teachers can help prepare students for postsecondary education. For teacher education the book explores the changing nature of pedagogy and new approaches to teacher development. What kind of teaching will allow mathematics to be a guide rather than a gatekeeper to many career paths? Essays discuss pedagogical implication in problem-centered teaching, the role of

complex mathematical tasks in teacher education, and the idea of making open-ended tasks--and the student work they elicit--central to professional discourse. High School Mathematics at Work presents thoughtful views from experts. It identifies rich possibilities for teaching mathematics and preparing students for the technological challenges of the future. This book will inform and inspire teachers, teacher educators, curriculum developers, and others involved in improving mathematics education and the capabilities of tomorrow's work force.

Fundamentals of Actuarial Mathematics - S. David Promislow
2015-01-20

Provides a comprehensive coverage of both the deterministic and stochastic models of life contingencies, risk theory, credibility theory, multi-state models, and an introduction to modern mathematical finance. New edition restructures the material to fit into modern computational methods and provides several spreadsheet examples throughout. Covers the syllabus for the Institute of Actuaries subject CT5, Contingencies Includes new chapters covering stochastic investments returns, universal life insurance. Elements of option pricing and the Black-Scholes formula will be introduced.

IIT-JEE Main & Advanced Chapter-Wise Solved Papers: 2005-2021 Mathematics (NCERT Based) - Kanak Jain & Rakesh Lokwani
2018-08-19

The new edition of IIT-JEE (Main & Advanced) MATHEMATICS is designed to present a whole package of Mathematics study preparation, sufficing the requirements of the aspirants who are preparing for the upcoming exam. Highlights of the Book • JEE Main and Advanced Solved Papers 2021 and 2020 included • Exam Patterns for JEE Main and Advanced included • An Analysis of IIT JEE included • Concepts are explained in detail • Chapters are compiled with Previous Years' Questions • Answers to Questions included with Explanations • Presence of accurate Figures and Tables • Five sets of Mock Tests are also included at the end • Based on pattern of NCERT Books 17 Years of IIT-JEE Chapter Wise & Topic wise Solved Papers MATHEMATICS' with Value Added Notes covers the whole syllabus distributing in 24 Chapters.

The book comprises chapters such as: • Quadratic Equations and Expressions • Complex Number • Progressions • Statistics and Probability • Trigonometrically Ratios and Equations • Differentiation • Differential Equations • Mathematical Reasoning and so on. This book serves to be a suitable Study Guide for the aspirants, with focus on Qualitative Preparation and Systematic understanding of the Syllabus and Examination Level. With provision for self-assessment in Mock Tests, this book stands beneficial in imprinting concepts in the mind.

Mathematical People - Donald Albers 2008-09-18

This unique collection contains extensive and in-depth interviews with mathematicians who have shaped the field of mathematics in the twentieth century. Collected by two mathematicians respected in the community for their skill in communicating mathematical topics to a broader audience, the book is also rich with photographs and includes an introduction

I S. Chand's ISC Mathematics For Class-XI - O.P. Malhotra, S.K. Gupta & Anubhuti Gangal

I S. Chand's ISC Mathematics For Class-XI

Basic Training in Mathematics - R. Shankar 2013-12-20

Based on course material used by the author at Yale University, this practical text addresses the widening gap found between the mathematics required for upper-level courses in the physical sciences and the knowledge of incoming students. This superb book offers students an excellent opportunity to strengthen their mathematical skills by solving various problems in differential calculus. By covering material in its simplest form, students can look forward to a smooth entry into any course in the physical sciences.

Introduction to Mathematical Sociology - Phillip Bonacich 2012-04

A comprehensive textbook on the tools of mathematical sociology and their applications Mathematical models and computer simulations of complex social systems have become everyday tools in sociology. Yet until now, students had no up-to-date textbook from which to learn these techniques. Introduction to Mathematical Sociology fills this gap, providing undergraduates with a comprehensive, self-contained primer

on the mathematical tools and applications that sociologists use to understand social behavior. Phillip Bonacich and Philip Lu cover all the essential mathematics, including linear algebra, graph theory, set theory, game theory, and probability. They show how to apply these mathematical tools to demography; patterns of power, influence, and friendship in social networks; Markov chains; the evolution and stability of cooperation in human groups; chaotic and complex systems; and more. Introduction to Mathematical Sociology also features numerous exercises throughout, and is accompanied by easy-to-use Mathematica-based computer simulations that students can use to examine the effects of changing parameters on model behavior. Provides an up-to-date and self-contained introduction to mathematical sociology Explains essential mathematical tools and their applications Includes numerous exercises throughout Features easy-to-use computer simulations to help students master concepts

Engineering Mathematics - John Bird 2017-07-14

Now in its eighth edition, *Engineering Mathematics* is an established textbook that has helped thousands of students to succeed in their exams. John Bird's approach is based on worked examples and interactive problems. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for a range of Level 2 and 3 engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae and multiple choice tests.

Math and Science for Young Children - Rosalind Charlesworth
2015-01-19

MATH AND SCIENCE FOR YOUNG CHILDREN, Eighth Edition, introduces readers to engaging math and science experiences for early childhood and early elementary education programs, and provides an organized, sequential approach to creating a developmentally appropriate math and science curriculum. The content aligns with key

guidelines and standards: The National Association for the Education of Young Children's (NAEYC) Professional Preparation Standards (2010); Developmentally Appropriate Practice (DAP) guidelines; Common Core Mathematics Standards; and Next Generation Science Standards (NGSS). The book also addresses STEM/STEAM and the essential domains of child growth and development during the crucial birth-through-eight age range. A valuable resource for the student/future teacher, working professional, or involved parent, MATH AND SCIENCE FOR YOUNG CHILDREN emphasizes the interrelatedness of math and science and how they can be integrated into all other curriculum areas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

More Mathematical People - Donald J. Albers 1994

This volume provides a collection of interviews with, and profiles of, some of the most prestigious mathematicians of the 20th century. The chapters tell, in the mathematicians' own words, how they became interested in mathematics, how they chose their speciality and about their hobbies and personal lives.

Bird's Engineering Mathematics - John Bird 2021-03-16

Now in its ninth edition, Bird's *Engineering Mathematics* has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, supported by practical engineering examples and applications to ensure that readers can relate theory to practice. Some 1,300 engineering situations/problems have been 'flagged-up' to help demonstrate that engineering cannot be fully understood without a good knowledge of mathematics. The extensive and thorough topic coverage makes this a great text for a range of level 2 and 3 engineering courses - such as for aeronautical, construction, electrical, electronic, mechanical, manufacturing engineering and vehicle technology - including for BTEC First, National and Diploma syllabuses, City & Guilds Technician Certificate and Diploma syllabuses, and even for GCSE and A-level revision. Its companion website at www.routledge.com/cw/bird provides resources for both students and lecturers, including full solutions for all 2,000 further questions, lists of

essential formulae, multiple-choice tests, and illustrations, as well as full solutions to revision tests for course instructors.

[A Concise Introduction to Pure Mathematics](#) - Martin Liebeck 2015-10-28

Accessible to all students with a sound background in high school mathematics, *A Concise Introduction to Pure Mathematics, Fourth Edition* presents some of the most fundamental and beautiful ideas in pure mathematics. It covers not only standard material but also many interesting topics not usually encountered at this level, such as the theory of solving cubic equations; Euler's formula for the numbers of corners, edges, and faces of a solid object and the five Platonic solids; the use of prime numbers to encode and decode secret information; the theory of how to compare the sizes of two infinite sets; and the rigorous theory of limits and continuous functions. New to the Fourth Edition Two new chapters that serve as an introduction to abstract algebra via the theory of groups, covering abstract reasoning as well as many examples and applications New material on inequalities, counting methods, the inclusion-exclusion principle, and Euler's phi function Numerous new exercises, with solutions to the odd-numbered ones Through careful explanations and examples, this popular textbook illustrates the power and beauty of basic mathematical concepts in number theory, discrete mathematics, analysis, and abstract algebra. Written in a rigorous yet accessible style, it continues to provide a robust bridge between high school and higher-level mathematics, enabling students to study more advanced courses in abstract algebra and analysis.

Mathemagics: A Magical Journey Through Advanced Mathematics - Connecting More Than 60 Magic Tricks To High-level Math -

Ricardo V Teixeira 2020-05-29

Teixeira and Park present over 60 different magic tricks while introducing students to high-level math areas. Readers will learn really interesting ideas that will better prepare them for future courses and help them finding areas they might want to study deeper. And as a 'side effect' students will learn amazing magic tricks, century-old secrets, and details from famous magicians and mathematicians. The material was written to quickly present key concepts in several mathematical areas in

direct way. Little or no proficiency in math is assumed. In fact, students do not require any Calculus knowledge. And since chapters are almost independent from each other, this book also work as introduction to several other courses. Topics covered include mathematical proofs, probability, abstract algebra, linear algebra, mathematical computing, number theory, coding theory, geometry, topology, real analysis, numerical analysis and history of math.

[Beyond Basic Statistics](#) - Kristin H. Jarman 2015-04-22

Features basic statistical concepts as a tool for thinking critically, wading through large quantities of information, and answering practical, everyday questions Written in an engaging and inviting manner, *Beyond Basic Statistics: Tips, Tricks, and Techniques Every Data Analyst Should Know* presents the more subjective side of statistics—the art of data analytics. Each chapter explores a different question using fun, common sense examples that illustrate the concepts, methods, and applications of statistical techniques. Without going into the specifics of theorems, propositions, or formulas, the book effectively demonstrates statistics as a useful problem-solving tool. In addition, the author demonstrates how statistics is a tool for thinking critically, wading through large volumes of information, and answering life's important questions. *Beyond Basic Statistics: Tips, Tricks, and Techniques Every Data Analyst Should Know* also features: Plentiful examples throughout aimed to strengthen readers' understanding of the statistical concepts and methods A step-by-step approach to elementary statistical topics such as sampling, hypothesis tests, outlier detection, normality tests, robust statistics, and multiple regression A case study in each chapter that illustrates the use of the presented techniques Highlights of well-known shortcomings that can lead to false conclusions An introduction to advanced techniques such as validation and bootstrapping Featuring examples that are engaging and non-application specific, the book appeals to a broad audience of students and professionals alike, specifically students of undergraduate statistics, managers, medical professionals, and anyone who has to make decisions based on raw data or compiled results.

3D Math Primer for Graphics and Game Development - Fletcher Dunn

2011-11-02

This engaging book presents the essential mathematics needed to describe, simulate, and render a 3D world. Reflecting both academic and in-the-trenches practical experience, the authors teach you how to describe objects and their positions, orientations, and trajectories in 3D using mathematics. The text provides an introduction to mathematics for **One Hundred Years of Russell's Paradox** - Godehard Link 2004-01-01 Die in diesem Band zusammengefassten Beiträge stellen die wesentlichen Forschungsergebnisse der internationalen Münchner Konferenz "100 Jahre Russell-Paradoxon" im Jahr 2001 dar, auf der an die Entdeckung des berühmten Russell Paradoxons vor 100 Jahren erinnert wurde. Die 31 Beiträge und der Einführungssessay des Herausgebers wurden alle - bis auf zwei Ausnahmen - ursprünglich für diesen Band verfasst.

The Mathematics of Logic - Richard W. Kaye 2007-07-12

This undergraduate textbook covers the key material for a typical first course in logic, in particular presenting a full mathematical account of the most important result in logic, the Completeness Theorem for first-order logic. Looking at a series of interesting systems, increasing in complexity, then proving and discussing the Completeness Theorem for each, the author ensures that the number of new concepts to be absorbed at each stage is manageable, whilst providing lively mathematical applications throughout. Unfamiliar terminology is kept to a minimum, no background in formal set-theory is required, and the book contains proofs of all the required set theoretical results. The reader is taken on a journey starting with König's Lemma, and progressing via order relations, Zorn's Lemma, Boolean algebras, and propositional logic, to completeness and compactness of first-order logic. As applications of the work on first-order logic, two final chapters provide introductions to model theory and nonstandard analysis.

Studying Mathematics and its Applications - Peter Kahn 2017-03-02

As students of mathematics or its applications progress, courses focus increasingly on mathematical theories and applications themselves, and less on how to study these complex ideas. Studying Mathematics and its

Applications aims to bridge this gap by focusing on the essential skills needed by students, helping them to study more effectively and successfully. The book leads the student through tasks, demonstrating how to use examples and cope with symbols and encouraging them to use these tools to apply mathematics and construct proofs. Offering practical advice on assessment and modes of study, this book is an invaluable companion to any Mathematics or Applications of Mathematics course.

Experiencing Mathematics - Reuben Hersh 2013-12-24

The question "What am I doing?" haunts many creative people, researchers, and teachers. Mathematics, poetry, and philosophy can look from the outside sometimes as ballet en pointe, and at other times as the flight of the bumblebee. Reuben Hersh looks at mathematics from the inside; he collects his papers written over several decades, their edited versions, and new chapters in his book Experiencing Mathematics, which is practical, philosophical, and in some places as intensely personal as Swann's madeleine. --Yuri Manin, Max Planck Institute, Bonn, Germany What happens when mid-career a mathematician unexpectedly becomes philosophical? These lively and eloquent essays address the questions that arise from a crisis of reflectiveness: What is a mathematical proof and why does it come after, not before, mathematical revelation? Can mathematics be both real and a human artifact? Do mathematicians produce eternal truths, or are the judgments of the mathematical community quasi-empirical and historically framed? How can we be sure that an infinite series that seems to converge really does converge? This collection of essays by Reuben Hersh makes an important contribution. His lively and eloquent essays bring the reality of mathematical research to the page. He argues that the search for foundations is misleading, and that philosophers should shift from focusing narrowly on the deductive structure of proof, to tracing the broader forms of quasi-empirical reasoning that star the history of mathematics, as well as examining the nature of mathematical communities and how and why their collective judgments evolve from one generation to the next. If these questions keep you up at night, then you should read this book. And if they don't,

then you should read this book anyway, because afterwards, they will! -- Emily Grosholz, Department of Philosophy, Penn State, Pennsylvania, USA Most mathematicians, when asked about the nature and meaning of mathematics, vacillate between the two unrealistic poles of Platonism and formalism. By looking carefully at what mathematicians really do when they are doing mathematics, Reuben Hersh offers an escape from this trap. This book of selected articles and essays provides an honest, coherent, and clearly understandable account of mathematicians' proof as it really is, and of the existence and reality of mathematical entities. It follows in the footsteps of Poincare, Hadamard, and Polya. The pragmatism of John Dewey is a better fit for mathematical practice than the dominant ``analytic philosophy''. Dialogue, satire, and fantasy enliven the philosophical and methodological analysis. Reuben Hersh has written extensively on mathematics, often from the point of view of a philosopher of science. His book with Philip Davis, *The Mathematical Experience*, won the National Book Award in science. Hersh is emeritus professor of mathematics at the University of New Mexico.

International Foundation Mathematics Workbook One - Stephen Easley-Walsh 2014-04-05

Students looking to build their skills through extra practice worksheets or teachers seeking already-created workbooks, reinforcing key concepts for their students, need look no further. Anyone in a foundation program or first year-college math course is bound to find this workbook approachable and immensely useful. The workbook is written by a teacher, who understands the needs of math students and has been teaching the material covered in this workbook for over five years to a diverse host of students from different backgrounds and needs. Material presented includes Linear Equations and Matrices, Quadratic and Cubic Equations, Sequences and Series, Indices and Logarithms, Trigonometry, Differentiation, and Integration. With over 2,000 level-appropriate created questions to practice, mathematical skills and confidence are sure to be reinforced and boosted.

NCERT Exemplar Problems Solved Mathematics Class 12 - Munish Sethi
NCERT Exemplar Problems Solved Mathematics Class 12

Rings and Things and a Fine Array of Twentieth Century Associative Algebra - Carl Clifton Faith 2004

This book surveys more than 125 years of aspects of associative algebras, especially ring and module theory. It is the first to probe so extensively such a wealth of historical development. Moreover, the author brings the reader up to date, in particular through his report on the subject in the second half of the twentieth century. In the second part of the book, the author gives descriptive impressions of the last half of the twentieth century. Beginning with his teachers and fellow graduate students at the University of Kentucky and at Purdue, Faith discusses his Fulbright-NATO Postdoctoral at Heidelberg and at the Institute for Advanced Study at Princeton, his year as a visiting scholar at Berkeley, and the many acquaintances he met there and in subsequent travels in India, Europe, and most recently, Barcelona.

Mathematical Research Today and Tomorrow - A. Connes
1992-12-14

The Symposium on the Current State and Prospects of Mathematics was held in Barcelona from June 13 to June 18, 1991. Seven invited Fields medalists gave talks on the development of their respective research fields. The contents of all lectures were collected in the volume, together with a transcription of a round table discussion held during the Symposium. All papers are expository. Some parts include precise technical statements of recent results, but the greater part consists of narrative text addressed to a very broad mathematical public.

CONTENTS: R. Thom: Leaving Mathematics for Philosophy.- S. Novikov: Role of Integrable Models in the Development of Mathematics.- S.-T. Yau: The Current State and Prospects of Geometry and Nonlinear Differential Equations.- A. Connes: Noncommutative Geometry.- S. Smale: Theory of Computation.- V. Jones: Knots in Mathematics and Physics.- G. Faltings: Recent Progress in Diophantine Geometry.

War and Words - Sara Munson Deats 2004

War and Words is a sweeping study of the profound, painful, and most significantly, defining cultural moments. Working from Homer through to Hemingway and in all traditions, some of the nation's best scholars of

literature illustrate how literature and language affect not only the present but also future generations by shaping history even as they represent it. This powerful collection affirms that the humanities remain a site of the most profound reflection on human experience and historical events that have, for better and worse, shaped world civilization. War and Words offers students of literature critical tools for reading literary explorations of ambivalence toward war and provides teachers of literature a suggested syllabus for a course that has become all too necessary in a time when all our lives are touched by war.

Discrete Mathematics with Applications - Susanna S. Epp 2018-12-17

Known for its accessible, precise approach, Epp's DISCRETE MATHEMATICS WITH APPLICATIONS, 5th Edition, introduces discrete mathematics with clarity and precision. Coverage emphasizes the major themes of discrete mathematics as well as the reasoning that underlies mathematical thought. Students learn to think abstractly as they study the ideas of logic and proof. While learning about logic circuits and computer addition, algorithm analysis, recursive thinking, computability, automata, cryptography and combinatorics, students discover that ideas of discrete mathematics underlie and are essential to today's science and technology. The author's emphasis on reasoning provides a foundation for computer science and upper-level mathematics courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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.

Mathematics: A Practical Odyssey - David B. Johnson 2015-01-01

MATHEMATICS: A PRACTICAL ODYSSEY, 8th Edition demonstrates mathematics' usefulness and relevance to students' daily lives through topics such as calculating interest and understanding voting systems. Well known for its clear writing and unique variety of topics, the text

emphasizes problem-solving skills, practical applications, and the history of mathematics, and unveils the relevance of mathematics and its human aspect to students. To offer flexibility in content, the book contains more information than might be covered in a one-term course. In addition, the chapters are independent of each other, further enabling instructors to select the ideal topics for their courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The World of Mathematics - James R. Newman 2000

I Want to Be a Mathematician: An Automathography - Paul R. Halmos 2020-08-03

Math Through the Ages - William P. Berlinghoff 2004-09-09

An informal and accessible overview of the history of mathematics.

Encyclopedia of Mathematics Education - Louise Grinstead 2001-03-15
First published in 2001. Routledge is an imprint of Taylor & Francis, an informa company.

Math & Stories - Marian R. Bartch 1996

Imaginative ideas and hands-on activities for integrating the teaching of mathematics with 29 of your favorite children's books, including Color Zoo, Fish Eyes, Frog and Toad Together, Jumanji, The Relatives Came, and A Chair for My Mother.

Discrete Algorithmic Mathematics, Third Edition - Stephen B. Maurer 2005-01-21

Thoroughly revised for a one-semester course, this well-known and highly regarded book is an outstanding text for undergraduate discrete mathematics. It has been updated with new or extended discussions of order notation, generating functions, chaos, aspects of statistics, and computational biology. Written in a lively, clear style that talks to the reader, the book is unique for its emphasis on algorithmics and the inductive and recursive paradigms as central mathematical themes. It includes a broad variety of applications, not just to mathematics and computer science, but to natural and social science as well. A manual of

selected solutions is available for sale to students; see sidebar. A complete solution manual is available free to instructors who have adopted the book as a required text.

The Mathematical Theory of Communication - Claude E Shannon
1998-09-01

Scientific knowledge grows at a phenomenal pace--but few books have had as lasting an impact or played as important a role in our modern world as *The Mathematical Theory of Communication*, published originally as a paper on communication theory more than fifty years ago. Republished in book form shortly thereafter, it has since gone through four hardcover and sixteen paperback printings. It is a revolutionary work, astounding in its foresight and contemporaneity. The University of Illinois Press is pleased and honored to issue this commemorative reprinting of a classic.

Introduction to Mathematical Philosophy - Bertrand Russell 1920

Proceedings of the 13th International Congress on Mathematical Education - Gabriele Kaiser 2017-10-31

This book is open access under a CC BY 4.0 license. The book presents the Proceedings of the 13th International Congress on Mathematical Education (ICME-13) and is based on the presentations given at the 13th

International Congress on Mathematical Education (ICME-13). ICME-13 took place from 24th- 31st July 2016 at the University of Hamburg in Hamburg (Germany). The congress was hosted by the Society of Didactics of Mathematics (Gesellschaft für Didaktik der Mathematik - GDM) and took place under the auspices of the International Commission on Mathematical Instruction (ICMI). ICME-13 brought together about 3.500 mathematics educators from 105 countries, additionally 250 teachers from German speaking countries met for specific activities. Directly before the congress activities were offered for 450 Early Career Researchers. The proceedings give a comprehensive overview on the current state-of-the-art of the discussions on mathematics education and display the breadth and deepness of current research on mathematical teaching-and-learning processes. The book introduces the major activities of ICME-13, namely articles from the four plenary lecturers and two plenary panels, articles from the five ICMI awardees, reports from six national presentations, three reports from the thematic afternoon devoted to specific features of ICME-13. Furthermore, the proceedings contain descriptions of the 54 Topic Study Groups, which formed the heart of the congress and reports from 29 Discussion Groups and 31 Workshops. The additional important activities of ICME-13, namely papers from the invited lecturers, will be presented in the second volume of the proceedings.