

Matematica Blu Volume 2 Algebra Geometria

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Critical Mathematics Education Paul Ernest 2016-01-01 Mathematics is traditionally seen as the most neutral of disciplines, the furthest removed from the arguments and controversy of politics and social life. However, critical mathematics challenges these assumptions and actively attacks the idea that mathematics is pure, objective, and value?neutral. It argues that history, society, and politics have shaped mathematics—not only through its applications and uses but also through molding its concepts, methods, and even mathematical truth and proof, the very means of establishing truth. Critical mathematics education also attacks the neutrality of the teaching and learning of mathematics, showing how these are value?laden activities indissolubly linked to social and political life. Instead, it argues that the values of openness, dialogicality, criticality towards received opinion, empowerment of the learner, and social/political engagement and citizenship are necessary dimensions of the teaching and learning of mathematics, if it is to contribute towards democracy and social justice. This book draws together critical theoretic contributions on mathematics and mathematics education from leading researchers in the field. Recurring themes include: The natures of mathematics and critical mathematics education, issues of epistemology and ethics; Ideology, the hegemony of mathematics, ethnomathematics, and real?life education; Capitalism, globalization, politics, social class, habitus, citizenship and equity. The book demonstrates the links between these themes and the discipline of mathematics, and its critical teaching and learning. The outcome is a groundbreaking collection unified by a shared concern with critical perspectives of mathematics and education, and of the ways they impact on practice.

Normal Modes and Localization in Nonlinear Systems Alexander F. Vakakis 2013-06-29 The nonlinear normal modes of a parametrically excited cantilever beam are constructed by directly applying the method of multiple scales to the governing integral-partial differential equation and associated boundary conditions. The effect of the inertia and curvature nonlin earities and the parametric excitation on the spatial distribution of the deflection is examined. The results are compared with those obtained by using a single-mode discretization. In the absence of linear viscous and quadratic damping, it is shown that there are nonlinear normal modes, as defined by Rosenberg, even in the presence of a principal parametric excitation. Furthermore, the nonlinear mode shape obtained with the direct approach is compared with that obtained with the discretization approach for some values of the excitation frequency. In the single-mode discretization, the spatial distribution of the deflection is assumed a priori to be given by the linear mode shape ϕ_n , which is parametrically excited, as Equation (41). Thus, the mode shape is not influenced by the nonlinear curvature and nonlinear damping. On the other hand, in the direct approach, the mode shape is not assumed a priori; the nonlinear effects modify the linear mode shape ϕ_n . Therefore, in the case of large-amplitude oscillations, the single-mode discretization may yield inaccurate mode shapes. References 1. Vakakis, A. F., Manevitch, L. I., Mikhlin, Y. v., Pilipchuk, V. N., and Zevin A. A., Nonnal Modes and Localization in Nonlinear Systems, Wiley, New York, 1996.

Matematica.blu. Algebra. Statistica. Per le Scuole superiori Massimo Bergamini 2017

Introduction to Linear Algebra Rita Fioresi 2021-09-02 Linear algebra provides the essential mathematical tools to tackle all the problems in Science.

Introduction to Linear Algebra is primarily aimed at students in applied fields (e.g. Computer Science and Engineering), providing them with a concrete, rigorous approach to face and solve various types of problems for the applications of their interest. This book offers a straightforward introduction to linear algebra that requires a minimal mathematical background to read and engage with. Features Presented in a brief, informative and engaging style Suitable for a wide broad range of undergraduates Contains many worked examples and exercises

Spectral Theory of Non-Commutative Harmonic Oscillators: An Introduction Alberto Parmeggiani 2010-04-22 This volume describes the spectral theory of the Weyl quantization of systems of polynomials in phase-space variables, modelled after the harmonic oscillator. The main technique used is pseudodifferential calculus, including global and semiclassical variants. The main results concern the meromorphic continuation of the spectral zeta function associated with the spectrum, and the localization (and the multiplicity) of the eigenvalues of such systems, described in terms of “classical” invariants (such as the periods of the periodic trajectories of the bicharacteristic flow associated with the eiganvalues of the symbol). The book utilizes techniques that are very powerful and flexible and presents an approach that could also be used for a variety of other problems. It also features expositions on different results throughout the literature.

How to Be a Math Genius Mike Goldsmith 2012-08-20 Learn how your amazing brain works and give it a power boost with a variety of exciting challenges, puzzles and codes to crack! In this clever, compelling math book, young readers previously daunted by algebra, logic, algorithms, and all things math will discover they are far better at it than they thought. Count on this essential book to make math more magical and memorable than ever before. Could it be? An exciting, brain training book about math?! Leave all your assumptions about math at the door, because this fun-filled visual guide will bring out your inner brilliance through a plethora of fun exercises including tantalising tests, codes to crack, puzzles to solve, and illusions to inspire you along the way. One of an educational series of captivating and comprehensive books for kids, How to be a Math Genius introduces the wonders of numbers through an exploration of amazing algebra, puzzling primes, super sequences, and special shapes. Put your brain to the test with a variety of exciting activities, challenges, tips, and tricks. Meet the big names and even bigger brains who made mathematical history, such as Pythagoras, Isaac Newton, and Alan Turing. This fantastic math book combines fun and facts in one complete package. Whether you're a math mastermind, numbers nerd, or completely clueless with calculations, train your brain to come out on top. Put Your Brain To the Test - Unleash Your Inner Genius! It's your brain and it's yours to train! Whoever said math couldn't be an adventure? Put your brain to the test and see how it measures up to a series of number games, logic problems, shape puzzles, and fun activities that will boost your brain cells. A delightfully put together kid's math book, designed to interest the young brain, with vivid imagery, fun points, and kid friendly language on concepts that can sometimes be a challenge. As an added bonus, there are loads of ideas for science projects too! As you'll learn in this math book - science and math go hand in hand. A great addition to any math and science classroom, or the perfect gift for the learner who needs a little motivation to get into learning math. This educational book for children opens the world of numbers through: - Understanding your brain and math - Discovering Pythagoras, number patterns and thinking outside the box - Exploring magic squares, infinity and number tricks **Challenging Problems in Geometry** Alfred S. Posamentier 2012-04-30 Collection of nearly 200 unusual problems dealing with congruence and parallelism, the Pythagorean theorem, circles, area relationships, Ptolemy and the cyclic quadrilateral, collinearity and concurrency and more. Arranged in order of difficulty. Detailed solutions.

Cambridge IGCSE® Mathematics Core Practice Book Karen Morrison 2018-06-30 This Cambridge IGCSE® Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE® Mathematics syllabus (0580/0980), for first examination from 2020. This Core practice book accompanies the Cambridge IGCSE® Mathematics Core and Extended Coursebook and provides students with additional practice activities focused on the skills required for the (0580/0980) syllabus. These activities are ideal as extra classroom materials, homework activities or for self-study. Answers are included at the back of the book to help students track their progress.

The History of Greek Philosophy: The pre-Socratics Luciano De Crescenzo 1989

Nuova matematica a colori. Algebra. Con quaderno di recupero. Ediz. blu. Con espansione online. Per le Scuole superiori. Con CD-ROM

Leonardo Sasso 2011

Algebra Michael Artin 2014-01-14 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may

come packaged with the bound book. Algebra, Second Edition, by Michael Artin, provides comprehensive coverage at the level of an honors-undergraduate or introductory-graduate course. The second edition of this classic text incorporates twenty years of feedback plus the author’s own teaching experience. This book discusses concrete topics of algebra in greater detail than others, preparing readers for the more abstract concepts; linear algebra is tightly integrated throughout.

Mathematics: A Very Short Introduction Timothy Gowers 2002-08-22 The aim of this volume is to explain the differences between research-level mathematics and the maths taught at school. Most differences are philosophical and the first few chapters are about general aspects of mathematical thought.

Cambridge Primary Mathematics Stage 2 Teacher's Resource with CD-ROM Cherri Moseley 2014-05-22 This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths.

English Spanish Picture Dictionary: First Spanish Word Book with More than 325 Essential Words Dylanna Press 2020-02-11 English-Spanish Picture Dictionary Start young learners on the path to learning Spanish! *More than 325 essential Spanish words *Simple, colorful child-friendly illustrations *Simple pronunciation guide is included for each word *Each picture includes both Spanish and English word *Popular topics including home, school, animals, family, transportation, colors, numbers, seasons, food, action verbs, emotions, opposites *Spanish-English and English-Spanish alphabetical word lists

Selected Exercises in Algebra Rocco Chirivi 2020-01-29 This book, the first of two volumes, contains over 250 selected exercises in Algebra which have featured as exam questions for the Arithmetic course taught by the authors at the University of Pisa. Each exercise is presented together with one or more solutions, carefully written with consistent language and notation. A distinguishing feature of this book is the fact that each exercise is unique and requires some creative thinking in order to be solved. The themes covered in this volume are: mathematical induction, combinatorics, modular arithmetic, Abelian groups, commutative rings, polynomials, field extensions, finite fields. The book includes a detailed section recalling relevant theory which can be used as a reference for study and revision. A list of preliminary exercises introduces the main techniques to be applied in solving the proposed exam questions. This volume is aimed at first year students in Mathematics and Computer Science.

British Books in Print 1968

The Shame Machine Cathy O'Neil 2022-03-22 'With moral clarity and powerful storytelling, Cathy O'Neil reverse engineers the 'shame machine,' revealing its inner workings and inciting nothing short of a cultural reckoning that has the potential to blow this machine to bits' - Ruha Benjamin Shame is being weaponized by governments and corporations to attack the most vulnerable. It's time to fight back Shame is a powerful and sometimes useful tool. When we publicly shame corrupt politicians, abusive celebrities, or predatory corporations, we reinforce values of fairness and justice. But as best-selling author Cathy O'Neil argues in this revelatory book, shaming has taken a new and dangerous turn. It is increasingly being weaponized -- used as a way to shift responsibility for social problems from institutions to individuals. Shaming children for not being able to afford school lunches or adults for not being able to find work lets us off the hook as a society. After all, why pay higher taxes to fund programmes for people who are fundamentally unworthy? O'Neil explores the machinery behind all this shame, showing how governments, corporations and the healthcare system capitalize on it. There are damning stories of rehab clinics, reentry programs, drug and diet companies, and social media platforms -- all of which profit from 'punching down' on the vulnerable. Woven throughout The Shame Machine is the story of O'Neil's own struggle with body image and her recent weight-loss surgery, which awakened her to the systematic shaming of fat people seeking medical care. With clarity and nuance, O'Neil dissects the relationship between shame and power. Whom does the system serve? How do current incentive structures perpetuate the shaming cycle? And, most important, how can we all fight back?

Matematica.blu 2.0. Vol. O-Q.Blu: Goniometria-Trigonometria. Con espansione online. Per le Scuole superiori Massimo Bergamini 2011

The Math of Life and Death Kit Yates 2021-04-27 "Few of us really appreciate the full power of math--the extent to which its influence is not only in every office and every home, but also in every courtroom and hospital ward. In this ... book, Kit Yates explores the true stories of life-changing events in which the application--or misapplication--of mathematics has played a critical role: patients crippled by faulty genes and entrepreneurs bankrupted by faulty algorithms; innocent victims of miscarriages of justice; and the unwitting victims of software glitches"--Publisher marketing.

Giornale della libreria 2005

Math Without Numbers Milo Beckman 2022-01-11 An illustrated tour of the structures and patterns we call "math" The only numbers in this book are the page numbers. Math Without Numbers is a vivid, conversational, and wholly original guide to the three main branches of abstract math—topology, analysis, and algebra—which turn out to be surprisingly easy to grasp. This book upends the conventional approach to math, inviting you to think creatively about shape and dimension, the infinite and infinitesimal, symmetries, proofs, and how these concepts all fit together. What awaits readers is a freewheeling tour of the inimitable joys and unsolved mysteries of this curiously powerful subject. Like the classic math allegory Flatland, first published over a century ago, or Douglas Hofstadter's Godel, Escher, Bach forty years ago, there has never been a math book quite like Math Without Numbers. So many popularizations of math have dwelt on numbers like pi or zero or infinity. This book goes well beyond to questions such as: How many shapes are there? Is anything bigger than infinity? And is math even true? Milo Beckman shows why math is mostly just pattern recognition and how it keeps on surprising us with unexpected, useful connections to the real world. The ambitions of this book take a special kind of author. An inventive, original thinker pursuing his calling with jubilant passion. A prodigy. Milo Beckman completed the graduate-level course sequence in mathematics at age sixteen, when he was a sophomore at Harvard; while writing this book, he was studying the philosophical foundations of physics at Columbia under Brian Greene, among others.

Basic Mathematics Serge Lang 1988-01

Weapons of Math Destruction Cathy O'Neil 2016 Longlisted for the National Book Award New York Times Bestseller A former Wall Street quant sounds an alarm on the mathematical models that pervade modern life -- and threaten to rip apart our social fabric We live in the age of the algorithm. Increasingly, the decisions that affect our lives--where we go to school, whether we get a car loan, how much we pay for health insurance--are being made not by humans, but by mathematical models. In theory, this should lead to greater fairness: Everyone is judged according to the same rules, and bias is eliminated. But as Cathy O'Neil reveals in this urgent and necessary book, the opposite is true. The models being used today are opaque, unregulated, and uncontestable, even when they're wrong. Most troubling, they reinforce discrimination: If a poor student can't get a loan because a lending model deems him too risky (by virtue of his zip code), he's then cut off from the kind of education that could pull him out of poverty, and a vicious spiral ensues. Models are propping up the lucky and punishing the downtrodden, creating a "toxic cocktail for democracy." Welcome to the dark side of Big Data. Tracing the arc of a person's life, O'Neil exposes the black box models that shape our future, both as individuals and as a society. These "weapons of math destruction" score teachers and students, sort r sum s, grant (or deny) loans, evaluate workers, target voters, set parole, and monitor our health. O'Neil calls on modelers to take more responsibility for their algorithms and on policy makers to regulate their use. But in the end, it's up to us to become more savvy about the models that govern our lives. This important book empowers us to ask the tough questions, uncover the truth, and demand change. -- Longlist for National Book Award (Non-Fiction) -- Goodreads, semi-finalist for the 2016 Goodreads Choice Awards (Science and Technology) -- Kirkus, Best Books of 2016 -- New York Times, 100 Notable

Books of 2016 (Non-Fiction) -- The Guardian, Best Books of 2016 -- WBUR's "On Point," Best Books of 2016: Staff Picks -- Boston Globe, Best Books of 2016, Non-Fiction

Mathematical Reviews 1976

Matematica.blu. Algebra. Probabilità. Per le Scuole superiori Massimo Bergamini 2017

Numbers 0-20: Wipe-Clean Activity Book HarperCollins UK 2017-03-13 Introduce young learners to numbers with this fun and engaging activity book. - Lots of practice opportunities to help children learn the numbers 0-20.- Wipe-clean pages and pen so that children can try the activities again and again.-

Colourful, motivating activities to help boost confidence.

Algebra: Chapter 0 Paolo Aluffi 2009 Algebra: Chapter 0 is a self-contained introduction to the main topics of algebra, suitable for a first sequence on the subject at the beginning graduate or upper undergraduate level. The primary distinguishing feature of the book, compared to standard textbooks in algebra, is the early introduction of categories, used as a unifying theme in the presentation of the main topics. A second feature consists of an emphasis on homological algebra: basic notions on complexes are presented as soon as modules have been introduced, and an extensive last chapter on homological algebra can form the basis for a follow-up introductory course on the subject. Approximately 1,000 exercises both provide adequate practice to consolidate the understanding of the main body of the text and offer the opportunity to explore many other topics, including applications to number theory and algebraic geometry. This will allow instructors to adapt the textbook to their specific choice of topics and provide the independent reader with a richer exposure to algebra. Many exercises include substantial hints, and navigation of the topics is facilitated by an extensive index and by hundreds of cross-references.

Basic Electronics BL Theraja 2007 Aims of the Book:The foremost and primary aim of the book is to meet the requirements of students pursuing following courses of study:1.Diploma in Electronics and Communication Engineering(ECE)-3-year course offered by various Indian and foreign polytechnics and technical institutes like city and guilds of London Institute(CGLI).2.B.E.(Elect.& Comm.)-4-year course offered by various Engineering Colleges.efforts have beenmade to cover the papers:Electronics-I & II and Pulse and Digital Circuits.3.B.Sc.(Elect.)-3-Year vocationalised course recently introduced by Approach.*Lineamenti.math blu. Con espansione online. Per le Scuole superiori. Con CD-ROM* Nella Dodero 2011

Mathematical Lives CLAUDIO BARTOCCI 2010-10-01 Steps forward in mathematics often reverberate in other scientific disciplines, and give rise to innovative conceptual developments or find surprising technological applications. This volume brings to the forefront some of the proponents of the mathematics of the twentieth century, who have put at our disposal new and powerful instruments for investigating the reality around us. The portraits present people who have impressive charisma and wide-ranging cultural interests, who are passionate about defending the importance of their own research, are sensitive to beauty, and attentive to the social and political problems of their times. What we have sought to document is mathematics' central position in the culture of our day. Space has been made not only for the great mathematicians but also for literary texts, including contributions by two apparent interlopers, Robert Musil and Raymond Queneau, for whom mathematical concepts represented a valuable tool for resolving the struggle between 'soul and precision.'

The Mathematics of Love Hannah Fry 2015-02-03 In this must-have for anyone who wants to better understand their love life, a mathematician pulls back the curtain and reveals the hidden patterns—from dating sites to divorce, sex to marriage—behind the rituals of love. The roller coaster of romance is hard to quantify; defining how lovers might feel from a set of simple equations is impossible. But that doesn't mean that mathematics isn't a crucial tool for understanding love. Love, like most things in life, is full of patterns. And mathematics is ultimately the study of patterns—from predicting the weather to the

fluctuations of the stock market, the movement of planets or the growth of cities. These patterns twist and turn and warp and evolve just as the rituals of love do. In *The Mathematics of Love*, Dr. Hannah Fry takes the reader on a fascinating journey through the patterns that define our love lives, applying mathematical formulas to the most common yet complex questions pertaining to love: What's the chance of finding love? What's the probability that it will last? How do online dating algorithms work, exactly? Can game theory help us decide who to approach in a bar? At what point in your dating life should you settle down? From evaluating the best strategies for online dating to defining the nebulous concept of beauty, Dr. Fry proves—with great insight, wit, and fun—that math is a surprisingly useful tool to negotiate the complicated, often baffling, sometimes infuriating, always interesting, mysteries of love.

Matematica.blu. Per le Scuole superiori Massimo Bergamini 2017

Rendiconti di matematica e delle sue applicazioni 2007

LA matematica a colori 2014

Performer Shaping Ideas. Idee Per Imparare. Per Le Scuole Superiori Marina Spiazzi

Math in Focus 2015

Cambridge Primary Mathematics Stage 1 Teacher's Resource with CD-ROM Cherri Moseley 2014-05-22 This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths.

Curves and Surfaces M. Abate 2012-06-11 The book provides an introduction to Differential Geometry of Curves and Surfaces. The theory of curves starts with a discussion of possible definitions of the concept of curve, proving in particular the classification of 1-dimensional manifolds. We then present the classical local theory of parametrized plane and space curves (curves in n-dimensional space are discussed in the complementary material): curvature, torsion, Frenet's formulas and the fundamental theorem of the local theory of curves. Then, after a self-contained presentation of degree theory for continuous self-maps of the circumference, we study the global theory of plane curves, introducing winding and rotation numbers, and proving the Jordan curve theorem for curves of class C2, and Hopf theorem on the rotation number of closed simple curves. The local theory of surfaces begins with a comparison of the concept of parametrized (i.e., immersed) surface with the concept of regular (i.e., embedded) surface. We then develop the basic differential geometry of surfaces in R3: definitions, examples, differentiable maps and functions, tangent vectors (presented both as vectors tangent to curves in the surface and as derivations on germs of differentiable functions; we shall consistently use both approaches in the whole book) and orientation. Next we study the several notions of curvature on a surface, stressing both the geometrical meaning of the objects introduced and the algebraic/analytical methods needed to study them via the Gauss map, up to the proof of Gauss' Teorema Egregium. Then we introduce vector fields on a surface (flow, first integrals, integral curves) and geodesics (definition, basic properties, geodesic curvature, and, in the complementary material, a full proof of minimizing properties of geodesics and of the Hopf-Rinow theorem for surfaces). Then we shall present a proof of the celebrated Gauss-Bonnet theorem, both in its local and in its global form, using basic properties (fully proved in the complementary material) of triangulations of surfaces. As an application, we shall prove the Poincaré-Hopf theorem on zeroes of vector fields. Finally, the last chapter will be devoted to several important results on the global theory of surfaces, like for instance the characterization of surfaces with constant Gaussian curvature, and the orientability of compact surfaces in R3.

Math in Focus: Singapore Math Extra Practice, Book B Grade 5 Great Source 2009-06

Catalogo dei libri in commercio 1999