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Airplane Structural Analysis and Design - Ernest Edwin Sechler 1963

Miss Meredith - Amy Levy 1980

Engineering Electromagnetism - Percy Hammond 1994
The aim of the book and its associated computer disk is to explain the physical nature of electric

and magnetic fields encountered in electrical engineering. Field problems are inherently difficult because fields are distributed in space and can exist in what is usually regarded as empty space devoid of matter. The customary approach to fields problems is through algebraic methods and the solution of equations. The book emphasizes instead a method based on geometry which enables the student to visualize the fields. Backed by a computer program (available to download at the bottom of this page) giving visual displays, the method enables the student to attempt real problems and to use design methods. A comprehensive survey of numerical and analytical methods is provided and examples of engineering applications are discussed.

Chronology of World War II 1939-1945 - Alessandro Giorgi 2020

Financial calculus - Erio Castagnoli 2020-03-30T16:47:00+02:00

This volume deals with traditional financial mathematics, at times presented in a critical and provocative way. We are convinced that even with the recent and rapid developments of mathematical finance, the topics we consider here continue to be of interest in terms of their applications and in constructing a general framework of financial evaluation. This volume contains an introduction to two themes – interest rate term structure and financial immunization – that are more modern and market-oriented. Several exercises have also been added: their use should facilitate self-verification of learning without the need for further material.

The Green Dwarf - Charlotte Brontë 2022-05-25

Charlotte Brontë was 17 years old when she wrote the story. Lady Emily Charlesworth is in love with Leslie, a struggling artist. Lord Percy, a fierce, arrogant aristocrat, will do anything to lay his hands on Leslie's chosen bride. With its exotic melange of political intrigue, amorous subterfuge, and Gothic scenery, The Green

Dwarf reveals the dynamic and experimental nature of Brontë's writing. Charlotte Brontë (1816 – 1855) was an English novelist and poet, the eldest of the three Brontë sisters who survived into adulthood and whose novels are English literature standards. She wrote Jane Eyre under the pen name Currer Bell.

L'Informazione bibliografica - 1995

Analyses by author, title and key word of books published in Italy.

Plates and Shells - Michel Fortin 1999-06-23

This volume features the proceedings from the Summer Seminar of the Canadian Mathematical Society held at Universite Laval. The purpose of the seminar was to gather both mathematicians and engineers interested in the theory or application of plates and shells, or more generally, in the modelisation of thin structures. From this, it was hoped that a better understanding of the problem would emerge for both groups of professionals. New aspects from the mathematical point of view and new applications posing new challenges are reported. This volume offers a snapshot of the state of the art of this rapidly evolving topic.

Double Heart - Marcel Schwob 2020-12-08

Double Heart, Marcel Schwob's first collection of short stories, here presented in English for the first time, in an expert translation by Brian Stableford, was originally published in 1891, all of the stories in it having previously appeared in the daily newspaper L'Écho de Paris while the author was part of a "stable" of writers attached to the newspaper, commissioned to supply stories at weekly or fortnightly intervals. Considered superficially, the project of writing a short story once a fortnight, or even once a week, does not seem particularly daunting, but the reality was that few were able to keep up such a pace while maintaining diversity and originality. During the years when he was penning the stories assembled in Coeur double, Schwob was, however, one of those aristocrats, and the collection is remarkably heterogeneous,

both thematically and in terms of its narrative strategies, perhaps more so than any other issued in the nineteenth century, and its variety offers an interesting example of disciplined randomness: not only a relentless quest for difference but a relentless quest for different kinds of difference. Marcel Schwob was a genius, albeit one only appreciated by a limited cognoscenti, and the present book, with its idiosyncratic brand of black comedy, and its mastery of abbreviation and understatement, is a long overdue addition to the work of this wonderful author available in English.

Stone - E.M. Winkler 2013-11-11

As one of the most widely accessible building materials available to man, natural stone has been in extensive use for many centuries. It is a significant component, andin places the only one, of man-made structures the world over, and its properties, applications, and behavior over long periods of time constitute a story that is almost unbelievably complex. Important elements of the story are described and interrelated in this volume. That the exposed parts of the earth's crust provide a considerable variety of rock types is evident to any thoughtful observer. To the geologist falls the task of characterizing and explaining this variety, but many other kinds of specialists who are involved in the commercial use of stone also have an essential stake in the matter. From quarryman to mason, from architect to structural engineer, and certainly from purchaser to future observer, there is compelling interest in the nature, appearance, and durability of one stone as compared with another, or of stone as compared with some other material. Small wonder, then, that much has been written on the subject, and that numerous aspects of commercial stone and its properlies have appealed to a host of investigators. Research in this area also has been an official concern of many organizations, which in the United States include the American Society for Testing and Materials, the National

Bureau of Standards, the U. S. Bureau of Mines, the U. S. Geological Survey, and several state agencies.

Ettore Majorana: Notes on Theoretical Physics - Salvatore Esposito 2013-03-09

HISTORICAL PRELUDE Ettore Majorana's fame solidly rests on testimonies like the following, from the evocative pen of Giuseppe Cocconi. At the request of Edoardo Amaldi, he wrote from CERN (July 18, 1965): "In January 1938, after having just graduated, I was invited, essen tially by you, to come to the Institute of Physics at the University in Rome for six months as a teaching assistant, and once I was there I would have the good fortune of joining Fermi, Bernardini (who had been given a chair at Camerino a few months earlier) and Ageno (he, too, a new graduate), in the research of the products of disintegration of /-L "mesons" (at that time called mesotrons or yukons), which are produced by cosmic rays [. . .] "It was actually while I was staying with Fermi in the small laboratory on the second floor, absorbed in our work, with Fermi working with a piece of Wilson's chamber (which would help to reveal mesons at the end of their range) on a lathe and me constructing a jalopy for the illumination of the chamber, using the flash produced by the explosion of an aluminum ribbon short circuited on a battery, that Ettore Majorana came in search of Fermi. I was introduced to him and we exchanged few words. A dark face. And that was it.

Ordinary Differential Equations in Rn - Livio C. Piccinini 2012-12-06

During the fifties, one of the authors, G. Stampacchia, had prepared some lecture notes on ordinary differential equations for a course in ad analysis. These remained for a long time unused because he was no vanced longer very interested in the study of such equations. We now see, though, that numerous applications to biology, chemistry, economics, and medicine have recently been added to the traditional ones

in mechanics; also, there has been in these last years a reemergence of interest in nonlinear analy sis, of which the theory of ordinary differential euqations is one of the principal sources of methods and problems. Hence the idea to write a book. Our text, based on the old notes and experience gained in many courses, seminars, and conferences, both in Italy and abroad, aims to give a simple and rapid introduction to the various themes, problems, and methods of the theory of ordinary differential equations. The book has been conceived in such a way so that even the reader who has merely had a first course in calculus may be able to study it and to obtain a panoramic vision of the theory. We have tried to avoid abstract formalism, preferring instead a discursive style, which should make the book accessible to engineers and physicists without specific preparation in modern mathematics. For students of mathematics, it pro vides motivation for the subject of more advanced analysis courses.

The Man Who Got Lost - Nick Wilgus 2019-01-12
After the sudden death of his wife and daughter, gifted writer and thinker Leo Collins finds that the world no longer makes sense. Separated from the herd, he is alone with questions that have no answers. "The Man Who Got Lost" is a dark, provocative novel from the author of the popular Father Ananda murder-mystery series that includes "Mindfulness and Murder," turned into an award-winning movie by DeWarrenne Pictures.

Probability - Erio Castagnoli 2011-10-17T00:00:00+02:00
Today probability turns out to be one of the most pervasive mathematical topics. It actually affects a number of quite different fields, proving particularly relevant to courses ranging from Statistics to Economics, from Finance to Management Science. Recently it has even found significant applications in some sectors of Law. This book contains a short presentation of the

most basic aspects of probability theory. As a result, it should come in handy and help students grasp the main concepts of the discipline as well as acquire a basic probabilistic vocabulary, thus capturing at least the flavour of possible relevant applications. The book includes a sketch of von Neumann Đ Morgenstern utility theory, which is useful per se as well as being an enlightening bridge between probability and decision theories. The book also provides a substantial set of exercises with solutions.

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

The Chambers Thesaurus - Martin H. Manser 2004

This thesaurus contains more than 420,000 synonyms and antonyms. Side panels explaining nuances of use help the reader find the right word for the right occasion.

Life Insurance Mathematics - Hans U. Gerber 2013-04-17

Halley's Comet has been prominently displayed in many newspapers during the last few months. For the first time in 76 years it appeared this winter, clearly visible against the nocturnal sky. This is an appropriate occasion to point out the fact that Sir Edmund Halley also constructed the world's first life table in 1693, thus creating the scientific foundation of life insurance. Halley's

life table and its successors were viewed as deterministic laws, i. e. the number of deaths in any given group and year was considered to be a weIl defined number that could be calculated by means of a life table. However, in reality this number is random. Thus any mathematical treatment of life insurance will have to rely more and more on prob ability theory. By sponsoring this monograph the Swiss Association of Actuaries wishes to support the "modern" probabilistic view oflife contingencies. We are fortu nate that Professor Gerber, an internationally renowned expert, has assumed the task of writing the monograph. We thank the Springer-Verlag and hope that this monograph will be the first in a successful series of actuarial texts. Hans Bühlmann Zürich, March 1986 President Swiss Association of Actuaries Preface Two major developments have influenced the environment of actuarial math ematics. One is the arrival of powerful and affordable computers; the once important problem of numerical calculation has become almost trivial in many instances.

Linear Algebra - Serge Lang 1977

Finite Element Structural Analysis - T. Y. Yang 1986

First Russia, Then Tibet [Illustrated Edition] - Robert Byron 2016-10-27

Over the course of several months during 1931 and 1932, Robert Byron journeyed to three countries teetering on the brink of change. In Russia, which was stricken by famine, Lenin had just died, Stalin’s dictatorship was in its infancy and the Great Terror had yet to begin. Having taken the first commercial flight to India, which took an astounding seven days, Byron was thrown into the tumultuous last years of the British Raj. Gandhi was imprisoned, while rioting and clashes between Hindus and Muslims had become commonplace. Finally Byron entered Tibet, the forbidden country. Exploring “The

Land of Snows", he saw Tibet as it was when the then Dalai Lama was still ensconced in the Potala Palace, twenty years before China's invasion. First Russia, Then Tibet is an invaluable first-hand account of transformative moments in periods of change and upheaval.- Print ed. Richly illustrated throughout.

Functional Analysis, Spectral Theory, and Applications - Manfred Einsiedler 2017-11-21

This textbook provides a careful treatment of functional analysis and some of its applications in analysis, number theory, and ergodic theory. In addition to discussing core material in functional analysis, the authors cover more recent and advanced topics, including Weyl's law for eigenfunctions of the Laplace operator, amenability and property (T), the measurable functional calculus, spectral theory for unbounded operators, and an account of Tao's approach to the prime number theorem using Banach algebras. The book further contains numerous examples and exercises, making it suitable for both lecture courses and self-study. Functional Analysis, Spectral Theory, and Applications is aimed at postgraduate and advanced undergraduate students with some background in analysis and algebra, but will also appeal to everyone with an interest in seeing how functional analysis can be applied to other parts of mathematics.

Mathematics for the Life Sciences - Erin N. Bodine 2014-08-17

An accessible undergraduate textbook on the essential math concepts used in the life sciences The life sciences deal with a vast array of problems at different spatial, temporal, and organizational scales. The mathematics necessary to describe, model, and analyze these problems is similarly diverse, incorporating quantitative techniques that are rarely taught in standard undergraduate courses. This textbook provides an accessible introduction to these critical mathematical concepts, linking them to biological observation and theory while also

presenting the computational tools needed to address problems not readily investigated using mathematics alone. Proven in the classroom and requiring only a background in high school math, Mathematics for the Life Sciences doesn't just focus on calculus as do most other textbooks on the subject. It covers deterministic methods and those that incorporate uncertainty, problems in discrete and continuous time, probability, graphing and data analysis, matrix modeling, difference equations, differential equations, and much more. The book uses MATLAB throughout, explaining how to use it, write code, and connect models to data in examples chosen from across the life sciences. Provides undergraduate life science students with a succinct overview of major mathematical concepts that are essential for modern biology Covers all the major quantitative concepts that national reports have identified as the ideal components of an entry-level course for life science students Provides good background for the MCAT, which now includes data-based and statistical reasoning Explicitly links data and math modeling Includes end-of-chapter homework problems, end-of-unit student projects, and select answers to homework problems Uses MATLAB throughout, and MATLAB m-files with an R supplement are available online Prepares students to read with comprehension the growing quantitative literature across the life sciences A solutions manual for professors and an illustration package is available

Bibliografia nazionale italiana - 1995

Mathematical Analysis tools for engineering - Franco Tomarelli 2019-09-18

This book is an introduction to the study of ordinary differential equations and partial differential equations, ranging from elementary techniques to advanced tools. The presentation focusses on initial value problems, boundary value problems, equations with delayed

argument and analysis of periodic solutions: main goal is the analysis of diffusion equation, wave equation Laplace equation and signals. The study of relevant examples of differential models highlights the notion of well-posed problem. An expanded tutorial chapter collects the topics from basic undergraduate calculus that are used in subsequent chapters. A wide exposition concerning classical methods for solving problems related to differential equations is available: mainly separation of variables and Fourier series, with basic worked exercises. A whole chapter deals with the analytic functions of complex variable. An introduction to function spaces, distributions and basic notions of functional analysis is present. Several chapters are devoted to Fourier and Laplace transforms methods to solve boundary value problems and initial value problems for differential equations. Tools for the analysis appear gradually: first in function spaces, then in the more general framework of distributions, where a powerful arsenal of techniques allows dealing with impulsive signals and singularities in both data and solutions of differential problems.

Bollettino della Unione matematica italiana - Unione matematica italiana 2005

Catalogo dei libri in commercio - 1999

Precorso di matematica - Paolo Boieri 1994

Einstein's Legacy - Julian Schwinger 2012-05-24

A Nobel Laureate relates the fascinating story of Einstein and relativity theory in well-illustrated, nontechnical terms, discussing the meaning of time, gravity and its effect on light, the curving of space-time, more.

Mathematics & Mathematics Education: Searching for Common Ground - Michael N. Fried 2013-11-29

This book is the fruit of a symposium in honor of Ted Eisenberg concerning the growing divide

between the mathematics community and the mathematics education community, a divide that is clearly unhealthy for both. The work confronts this disturbing gap by considering the nature of the relationship between mathematics education and mathematics, and by examining areas of commonality as well as disagreement. It seeks to provide insight into the mutual benefit both stand to gain by building bridges based on the natural bonds between them.

Collins COBUILD Advanced Learner's Dictionary - Collins 2014

The eighth edition of the this dictionary offers up-to-date coverage of today's English in a clear, attractive format. The book is ideal for upper-intermediate and advanced learners of English. It covers all the words, phrases, and idioms that students need to master in order to speak and write effective English.

Differential Geometry - Loring W. Tu 2017-06-01

This text presents a graduate-level introduction to differential geometry for mathematics and physics students. The exposition follows the historical development of the concepts of connection and curvature with the goal of explaining the Chern–Weil theory of characteristic classes on a principal bundle. Along the way we encounter some of the high points in the history of differential geometry, for example, Gauss' Theorema Egregium and the Gauss–Bonnet theorem. Exercises throughout the book test the reader’s understanding of the material and sometimes illustrate extensions of the theory. Initially, the prerequisites for the reader include a passing familiarity with manifolds. After the first chapter, it becomes necessary to understand and manipulate differential forms. A knowledge of de Rham cohomology is required for the last third of the text. Prerequisite material is contained in author's text An Introduction to Manifolds, and can be learned in one semester. For the benefit of the reader and to establish common notations,

Appendix A recalls the basics of manifold theory. Additionally, in an attempt to make the exposition more self-contained, sections on algebraic constructions such as the tensor product and the exterior power are included. Differential geometry, as its name implies, is the study of geometry using differential calculus. It dates back to Newton and Leibniz in the seventeenth century, but it was not until the nineteenth century, with the work of Gauss on surfaces and Riemann on the curvature tensor, that differential geometry flourished and its modern foundation was laid. Over the past one hundred years, differential geometry has proven indispensable to an understanding of the physical world, in Einstein's general theory of relativity, in the theory of gravitation, in gauge theory, and now in string theory. Differential geometry is also useful in topology, several complex variables, algebraic geometry, complex manifolds, and dynamical systems, among other fields. The field has even found applications to group theory as in Gromov's work and to probability theory as in Diaconis's work. It is not too far-fetched to argue that differential geometry should be in every mathematician's arsenal.

Geology of the Nonmetallics - P. W. Harben 1984

Popper's Vienna - Dario Antiseri 2006

Engineering Drawing and Design, Student Edition with CD-ROM - Cecil Jensen 2002-01-31

Problems of Science - Federigo Enriques 1914
Purchase of this book includes free trial access to www.million-books.com where you can read more than a million books for free. This is an OCR edition with typos. Excerpt from book: I. INTRODUCTION. 1. THE SPECIAL PROBLEMS AND GENERAL IDEAS OF SCIENCE A DOUBLE fatality hangs over one who has consecrated his days to science. If he would contribute to the

advancement of science, he must prepare himself first of all by a patient study of the thousands of details which constitute its technique; he must learn the results obtained by numberless laborers whose researches tend toward the same aim. He must master their conceptions and subject them to a new criticism. This work so engrosses the attention of the investigator that he has little time left for casting a glance over the branches of science which are developing beside him. Yet this necessity also weighs upon his soul If on the one hand he ought to study special problems, on the other, he cannot exempt himself from considering the ends set before special research by rising to a general outlook which shall command the view of a broader scientific basis. This double necessity causes a conflict of tendencies, and this conflict in our system of production results in a loss of time and of work from which the intellectual world suffers. Most investigators, if they are not rightly directed, shut themselves up in a narrow circle and fall into a blind empiricism. Others lose themselves in the region of confused generalities, while a few finer spirits find the way for themselves, and often must win again by fresh efforts that which they should have a right to expect as the outcome of the completed work of their companions in labor. But the age of heroes, that of Descartes or Leibniz, whose genius opened all the doors of science, seems closed forever The conquests of the past weigh upon the present and upon the future. And if it is permissible to hope that a happier use of our intellectual powe...

Probability - Erio Castagnoli
2020-03-30T16:18:00+02:00

Today probability turns out to be one of the most pervasive mathematical topics. It actually affects a number of quite different fields, proving particularly relevant to courses ranging from Statistics to Economics, from Finance to Management Science. Recently it has even found

significant applications in some sectors of Law. This book contains a short presentation of the most basic aspects of probability theory. As a result, it should come in handy and help students grasp the main concepts of the discipline as well as acquire a basic probabilistic vocabulary, thus capturing at least the flavour of possible relevant applications. The book includes a sketch of von Neumann – Morgenstern utility theory, which is useful per se as well as being an enlightening bridge between probability and decision theories. The book also provides a substantial set of exercises with solutions.

Mathematical Analysis I - Claudio Canuto 2015-04-08

The purpose of the volume is to provide a support for a first course in Mathematics. The contents are organised to appeal especially to Engineering, Physics and Computer Science students, all areas in which mathematical tools play a crucial role. Basic notions and methods of differential and integral calculus for functions of one real variable are presented in a manner that elicits critical reading and prompts a hands-on approach to concrete applications. The layout has a specifically-designed modular nature, allowing the instructor to make flexible didactical choices when planning an introductory lecture course. The book may in fact be employed at three levels of depth. At the elementary level the student is supposed to grasp the very essential ideas and familiarise with the corresponding key techniques. Proofs to the main results befit the intermediate level, together with several remarks and complementary notes enhancing the treatise. The last, and farthest-reaching, level requires the additional study of the material contained in the appendices, which enable the strongly motivated reader to explore further into the subject. Definitions and properties are furnished with substantial examples to stimulate the learning process. Over 350 solved exercises complete the text, at least half of which guide

the reader to the solution. This new edition features additional material with the aim of matching the widest range of educational choices for a first course of Mathematics.

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.

Color Atlas of Biochemistry - Jan Koolman 2011-01-01

Totally revised and expanded, the Color Atlas of Biochemistry presents the fundamentals of human and mammalian biochemistry on 215 stunning color plates.Alongside a short introduction to chemistry and the classical topics of biochemistry, the 2nd edition covers new approaches and aspects in biochemistry, such as links between chemical structure and biological function or pathways for information transfer, as well as recent developments and discoveries, such as the structures of many new important molecules. Key features of this title include:- The unique combination of highly effective color graphics and comprehensive figure legends;- Unified color-coding of atoms, coenzymes, chemical classes, and cell organelles that allows quick recognition of all involved systems;- Computer graphics provide simulated 3D representation of many important molecules.This Flexibook is ideal for students of medicine and biochemistry and a valuable source of reference for practitioners.

Bollettino Della Unione Matematica Italiana - 1996