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Fundamentals of Complementary, Alternative, and Integrative Medicine - E-Book Marc S. Micozzi 2018-10-08 Get a solid, global foundation of the therapies and evidence-based clinical applications of CAI. Fundamentals of Complementary, Alternative, and Integrative Medicine, 6th Edition is filled with the most up-to-date information on scientific theory and research of holistic medicine from experts around the world. The 6th edition of this acclaimed text includes all new content on quantum biology and biofields in health and nursing, integrative mental health care, and homeopathic medicine. Its wide range of topics explores therapies most commonly seen in the U.S., such as energy medicine, mind-body therapies, and reflexology along with traditional medicine and practices from around the world. With detailed coverage of historic and contemporary applications, this text is a solid resource for all practitioners in the medical, health, and science fields! Coverage of CAI therapies and systems includes those most commonly encountered or growing in popularity, so you can carefully evaluate each treatment. An evidence-based approach focuses on treatments best supported by clinical trials and scientific evidence. Observations from mechanisms of action to evidence of clinical efficacy answers questions of how, why, and when CAM therapies work. A unique synthesis of information, including historical usage, cultural and social analysis, current basic science theory and research, and a wide range of clinical investigations and observations, makes this text a focused, authoritative resource. Global coverage includes discussions of traditional healing arts from Europe, Asia, Africa, and the Americas. Clinical guides for selecting therapies, and new advances for matching the appropriate therapy to the individual patient, enables you to offer and/or recommend individualized patient care. Expert contributors include well-known writers such as Kevin Ergil, Patch Adams, Joseph Pizzorno, and Marc Micozzi. A unique history of CAI traces CAM therapies from their beginnings to present day practices. Suggested readings and references on the companion website list the best resources for further research and study. NEW! Added chapters offer fresh perspective on quantum biology and biofields in health and nursing, integrative mental health care, and homeopathic medicine. NEW! Updated chapters feature new content and topics, including: challenges in integrative medicine, legal issues, CAI in the community, psychometric evaluation, placebo effect, stress management, and much more! NEW! Updated guides on common herbal remedies in clinical practice, East and Southeast Asia, and native North and South America deliver the latest information. NEW! Basic science content and new theory and research studies cover a wide range of sciences such as biophysics, biology and ecology, ethnomedicine, psychometrics, neurosciences, and systems theory. NEW! Expanded global ethnomedical systems includes new content on Shamanism and Neo-Shamanism, Central and North Asia, Southeast Asia, Nepal and Tibet, Hawaii and South Pacific, Alaska and Pacific Northwest, and contemporary global healthcare.

Topology as Fluid Geometry James W. Cannon 2017 This is the second of a three volume collection devoted to the geometry, topology, and curvature of 2-dimensional spaces. The collection provides a guided tour through a wide range of topics by one of the twentieth century's masters of geometric topology. The books are accessible to college and graduate students and provide perspective and insight to mathematicians at all levels who are interested in geometry and topology. The second volume deals with the topology of 2-dimensional spaces. The attempts encountered in Volume 1 to understand length and area in the plane lead to examples most easily described by the methods of topology (fluid geometry): finite curves of infinite length, 1-dimensional curves of positive area, space-filling curves (Peano curves), 0-dimensional subsets of the plane through which no straight path can pass (Cantor sets), etc. Volume 2 describes such sets. All of the standard topological results about 2-dimensional spaces are then proved, such as the Fundamental Theorem of Algebra (two proofs), the No Retraction Theorem, the Brouwer Fixed Point Theorem, the Jordan Curve Theorem, the Open Mapping Theorem, the Riemann-Hurwitz Theorem, and the Classification Theorem for Compact 2-manifolds. Volume 2 also includes a number of theorems usually assumed without proof since their proofs are not readily available, for example, the Zippin Characterization Theorem for 2-dimensional spaces that are locally Euclidean, the Schoenflies Theorem characterizing the disk, the Triangulation Theorem for 2-manifolds, and the R. L. Moore's Decomposition Theorem so useful in understanding fractal sets.

Mathematical Foundations of System Safety Engineering Richard R. Zito 2019-11-12 This graduate-level textbook elucidates low-risk and fail-safe systems in mathematical detail. It addresses, in particular, problems where mission-critical performance is paramount, such as in aircraft, missiles, nuclear reactors and weapons, submarines, and many other types of systems where "failure" can result in overwhelming loss of life and property. The book is divided into four parts: Fundamentals, Electronics, Software, and Dangerous Goods. The first part on Fundamentals addresses general concepts of system safety engineering that are applicable to any type of system. The second part, Electronics, addresses the detection and correction of electronic hazards. In particular, the Bent Pin Problem, Sneak Circuit Problem, and related electrical problems are discussed with mathematical precision. The third part on Software addresses predicting software failure rates as well as detecting and correcting deep software logical flaws (called defects). The fourth part on Dangerous Goods presents solutions to three typical industrial chemical problems faced by the system safety engineer during the design, storage, and disposal phases of a dangerous goods' life cycle.

Principles of Engineering Mechanics Millard F. Beatty 2010-06-01 Separation of the elements of classical mechanics into kinematics and dynamics is an uncommon tutorial approach, but the author uses it to advantage in this two-volume set. Students gain a mastery of kinematics first – a solid foundation for the later study of the free-body formulation of the dynamics problem. A key objective of these volumes, which present a vector treatment of the principles of mechanics, is to help the student gain confidence in transforming problems into appropriate mathematical language that may be manipulated to give useful physical conclusions or specific numerical results. In the first volume, the elements of vector calculus and the matrix algebra are reviewed in appendices. Unusual mathematical topics, such as singularity functions and some elements of tensor analysis, are introduced within the text. A logical and systematic building of well-known kinematic concepts, theorems, and formulas, illustrated by examples and problems, is presented offering insights into both fundamentals and applications. Problems amplify the material and pave the way for advanced study of topics in mechanical design analysis, advanced kinematics of mechanisms and analytical dynamics, mechanical vibrations and controls, and continuum mechanics of solids and fluids. Volume I of Principles of Engineering Mechanics provides the basis for a stimulating and rewarding one-term course for advanced undergraduate and first-year graduate students specializing in mechanics, engineering science, engineering physics, applied mathematics, materials science, and mechanical, aerospace, and civil engineering. Professionals working in related fields of applied mathematics will find it a practical review and a quick reference for questions involving basic kinematics.

A Critical Introduction to the Philosophy of Language John Fennell 2019-02-18 A Critical Introduction to Philosophy of Language is a historically oriented introduction to the central themes in philosophy of language. Its narrative arc covers Locke's 'idea' theory, Mill's empiricist account of math and logic, Frege and Russell's development of modern logic and its subsequent deployment in their pioneering program of 'logical analysis', Ayer and Carnap's logical positivism, Quine's critique of logical positivism and elaboration of a naturalist-behaviorist approach to meaning, and later-Wittgenstein's 'ordinary language philosophy'-inspired rejection of the project of logical analysis. Thus, it historically situates the two central programs in early twentieth-century English-speaking philosophy -- logical analysis and logical positivism -- and discusses the central critiques they face later in the century in the works of Quine and the later-Wittgenstein. Unlike other secondary studies in philosophy of language, A Critical Introduction to Philosophy of Language is not just a 'greatest hits album', i.e., a discontinuous compilation in which classics in the field are presented together with their standard criticisms one after the other. Instead, Fennell develops a particular, historical-thematic narrative in which the figures and ideas he treats are introduced in highly intentional ways. And by cross-referencing them throughout his discussions, he highlights the contributions they make to the narrative they comprise.

Experimental Methods for the Analysis of Optimization Algorithms Thomas Bartz-Beielstein 2010-11-02 In operations research and computer science it is common practice to evaluate the performance of optimization algorithms on the basis of computational results, and the experimental approach should follow accepted principles that guarantee the reliability and reproducibility of results. However, computational experiments differ from those in other sciences, and the last decade has seen considerable methodological research devoted to understanding the particular features of such experiments and assessing the related statistical methods. This book consists of methodological contributions on different scenarios of experimental analysis. The first part overviews the main issues in the experimental analysis of algorithms, and discusses the experimental cycle of algorithm development; the second part treats the characterization by means of statistical distributions of algorithm performance in terms of solution quality, runtime and other measures; and the third part collects advanced methods from experimental design for configuring and tuning algorithms on a specific class of instances with the goal of using the least amount of experimentation. The contributor list includes leading scientists in algorithm design, statistical design, optimization and heuristics, and most chapters provide theoretical background and are enriched with case studies. This book is written for researchers and practitioners in operations research and computer science who wish to improve the experimental assessment of optimization algorithms and, consequently, their design.

Sataloff's Comprehensive Textbook of Otolaryngology: Head & Neck Surgery Robert T Sataloff 2015-11-30 Sataloff's Comprehensive Textbook of Otolaryngology: Head & Neck Surgery - Laryngology is part of a multi-volume textbook covering basic and clinical science across the entire field of otolaryngology. Volumes in the set include: otology, neurotology and skull-based surgery; rhinology, allergy and immunology; facial plastic and reconstructive surgery; head and neck surgery; and paediatric otolaryngology. The full set is enhanced by over 5000 full colour images and illustrations, spanning nearly 6000 pages, complete with a comprehensive index on DVD. Edited by Robert T Sataloff from Drexel University College of Medicine, Philadelphia, this volume includes contributions from internationally recognised experts in otolaryngology, ensuring authoritative content throughout. Sataloff's Comprehensive Textbook of Otolaryngology: Head & Neck Surgery – Laryngology is an indispensable, in-depth guide to the field for all otolaryngology practitioners. Key Points Textbook of laryngology, part of six-volume set covering the entire field of otolaryngology Volumes include otology/neurotology, rhinology, plastic surgery, head and neck surgery, and paediatric otolaryngology Over 5000 full colour images and illustrations across six volumes Edited by Robert T Sataloff, with contributions from internationally recognised otolaryngology experts

Applied Mechanics Reviews 1973

Mathematical Foundations of Elasticity Jerrold E. Marsden 1983 Graduate-level study approaches mathematical foundations of three-dimensional elasticity using modern differential geometry and functional analysis. It & presents a & classical subject in a modern setting, with examples of newer mathematical contributions. 1983 edition.

The Athenaeum 1838

Psychological Foundations of Education Morris L. Bigge 1980

Science Books & Films 1980

Noyes' Knee Disorders: Surgery, Rehabilitation, Clinical Outcomes E-Book Frank R. Noyes 2016-02-02 Frank R. Noyes, MD — internationally-renowned knee surgeon and orthopaedic sports medicine specialist — presents this unparalleled resource on the diagnosis, management, and outcomes analysis for the full range of complex knee disorders. Relies on Dr. Noyes' meticulous clinical studies and outcomes data from peer-reviewed publications as a scientifically valid foundation for patient care. Features detailed post-operative rehabilitation programs and protocols so that you can apply proven techniques and ease your patients' progression from one phase to the next. Presents step-by-step descriptions on soft tissue knee repair and reconstruction for anterior cruciate ligament reconstruction, meniscus repair, soft tissue transplants, osseous malalignments, articular cartilage restoration, posterior cruciate ligament reconstruction, and more to provide you with guidance for the management of any patient. Contains today's most comprehensive and advanced coverage of ACL,PCL, posterolateral, unicompartmental knee replacement, return to sports after injury, along with 1500 new study references supporting treatment recommendations. Features all-new content on unicompartmental and patellofemoral knee replacement, updated operative procedures for posterior cruciate ligament and posterolateral ligament deficiency, updated postoperative rehabilitation protocols, and new information on cartilage restoration procedures and meniscus transplantation. Includes some of the most comprehensive and advanced discussions on arthrofibrosis, complex regional pain syndrome, tibial and femoral osteotomies, and posterolateral reconstructions available in modern published

literature. Covers gender disparities in ligament injuries for more effective analysis and management.

Tensor Spaces and Exterior Algebra Takeo Yokonuma 1992 This book explains, as clearly as possible, tensors and such related topics as tensor products of vector spaces, tensor algebras, and exterior algebras. You will appreciate Yokonuma's lucid and methodical treatment of the subject. This book is useful in undergraduate and graduate courses in multilinear algebra. Tensor Spaces and Exterior Algebra begins with basic notions associated with tensors. To facilitate understanding of the definitions, Yokonuma often presents two or more different ways of describing one object. Next, the properties and applications of tensors are developed, including the classical definition of tensors and the description of relative tensors. Also discussed are the algebraic foundations of tensor calculus and applications of exterior algebra to determinants and to geometry. This book closes with an examination of algebraic systems with bilinear multiplication. In particular, Yokonuma discusses the theory of replicas of Chevalley and several properties of Lie algebras deduced from them.

Flexible Robot Dynamics and Controls Rush D. Robinett III 2012-12-06 This book is the result of over ten (10) years of research and development in flexible robots and structures at Sandia National Laboratories. The authors de cided to collect this wealth of knowledge into a set of viewgraphs in order to teach a graduate class in Flexible Robot Dynamics and Controls within the Mechanical En gineering Department at the University of New Mexico (UNM). These viewgraphs, encouragement from several students, and many late nights have produced a book that should provide an upper-level undergraduate and graduate textbook and a reference for experienced professionals. The content of this book spans several disciplines including structural dynam ics, system identification, optimization, and linear, digital, and nonlinear control theory which are developed from several points of view including electrical, me chanical, and aerospace engineering as well as engineering mechanics. As a result, the authors believe that this book demonstrates the value of solid applied theory when developing hardware solutions to real world problems. The reader will find many real world applications in this book and will be shown the applicability of these techniques beyond flexible structures which, in turn, shows the value of mul tidisciplinary education and teaming.

Geometry of Lengths, Areas, and Volumes: Two-Dimensional Spaces, Volume 1 James W. Cannon 2017-11-16 This is the first of a three volume collection devoted to the geometry, topology, and curvature of 2-dimensional spaces. The collection provides a guided tour through a wide range of topics by one of the twentieth century's masters of geometric topology. The books are accessible to college and graduate students and provide perspective and insight to mathematicians at all levels who are interested in geometry and topology. The first volume begins with length measurement as dominated by the Pythagorean Theorem (three proofs) with application to number theory; areas measured by slicing and scaling, where Archimedes uses the physical weights and balances to calculate spherical volume and is led to the invention of calculus; areas by cut and paste, leading to the Bolyai-Gerwien theorem on squaring polygons; areas by counting, leading to the theory of continued fractions, the efficient rational approximation of real numbers, and Minkowski's theorem on convex bodies; straight-edge and compass constructions, giving complete proofs, including the transcendence of and , of the impossibility of squaring the circle, duplicating the cube, and trisecting the angle; and finally to a construction of the Hausdorff-Banach-Tarski paradox that shows some spherical sets are too complicated and cloudy to admit a well-defined notion of area.

Dental Implant Prosthetics - E-Book Carl E. Misch 2014-07-21 Written by the foremost authority in the field, Dental Implants Prosthetics, 2nd Edition helps you advance your skills and understanding of implant prosthetics. Comprehensive coverage includes both simple and complicated clinical cases, with practical guidance on how to apply the latest research, diagnostic tools, treatment planning, implant designs, materials, and techniques to provide superior patient outcomes. Treatment supported by clinical evidence equips students with a more targeted evidence-based approach to patient procedures. NEW! Emphasis on treatment planning helps decrease the number of visits while providing effective, long-term results for the patient. NEW! Focus on the patient presentation offers the latest treatment options for bone harvesting, restoration and recovery. NEW! Original illustrations and photos highlight and clarify key clinical concepts and techniques.

Handbook of Applied Mathematics Carl Pearson 2012-12-06 Most of the topics in applied mathematics dealt with in this handbook can be grouped rather loosely under the term analysis. They involve results and techniques which experience has shown to be of utility in a very broad variety of applications. Although care has been taken to collect certain basic results in convenient form, it is not the purpose of this handbook to duplicate the excellent collections of tables and formulas available in the National Bureau of Standards Handbook of Mathematical Functions (AMS Series 55, U.S. Government Printing Office) and in the references given therein. Rather, the emphasis in the present handbook is on technique, and we are indeed fortunate that a number of eminent applied mathe maticians have been willing to share with us their interpretations and experiences. To avoid the necessity of frequent and disruptive cross-referencing, it is expected that the reader will make full use of the index. Moreover, each chapter has been made as self-sufficient as is feasible. This procedure has resulted in occasional duplication, but as compensation for this the reader may appreciate the availability of different points of view concerning certain topics of current interest. As editor, I would like to express my appreciation to the contributing authors, to the reviewers, to the editorial staff of the publisher, and to the many secretaries and typists who have worked on the manuscript; without the partnership of all of these people, this handbook would not have been possible.

Heat Conduction Using Greens Functions Kevin Cole 2010-07-16 Since its publication more than 15 years ago, Heat Conduction Using Green's Functions has become the consummate heat conduction treatise from the perspective of Green's functions-and the newly revised Second Edition is poised to take its place. Based on the authors' own research and classroom experience with the material, this book organizes the so

Intelligent Control Systems Using Soft Computing Methodologies Ali Zilouchian 2001-03-27 In recent years, intelligent control has emerged as one of the most active and fruitful areas of research and development. Until now, however, there has been no comprehensive text that explores the subject with focus on the design and analysis of biological and industrial applications. Intelligent Control Systems Using Soft Computing Methodologies does all that and more. Beginning with an overview of intelligent control methodologies, the contributors present the fundamentals of neural networks, supervised and unsupervised learning, and recurrent networks. They address various implementation issues, then explore design and verification of neural networks for a variety of applications, including medicine, biology, digital signal processing, object recognition, computer networking, desalination technology, and oil refinery and chemical processes. The focus then shifts to fuzzy logic, with a review of the fundamental and theoretical aspects, discussion of implementation issues, and examples of applications, including control of autonomous underwater vehicles, navigation of space vehicles, image processing, robotics, and energy management systems. The book concludes with the integration of genetic algorithms into the paradigm of

soft computing methodologies, including several more industrial examples, implementation issues, and open problems and open problems related to intelligent control technology. Suitable as a textbook or a reference, Intelligent Control Systems explores recent advances in the field from both the theoretical and the practical viewpoints. It also integrates intelligent control design methodologies to give designers a set of flexible, robust controllers and provide students with a tool for solving the examples and exercises within the book.

Mathematical Principles of the Internet, Volume 2 Nirdosh Bhatnagar 2018-11-21 This two-volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering. The books do not aim to provide all of the mathematical foundations upon which the Internet is based. Instead, they cover a partial panorama and the key principles. Volume 1 explores Internet engineering, while the supporting mathematics is covered in Volume 2. The chapters on mathematics complement those on the engineering episodes, and an effort has been made to make this work succinct, yet self-contained. Elements of information theory, algebraic coding theory, cryptography, Internet traffic, dynamics and control of Internet congestion, and queueing theory are discussed. In addition, stochastic networks, graph-theoretic algorithms, application of game theory to the Internet, Internet economics, data mining and knowledge discovery, and quantum computation, communication, and cryptography are also discussed. In order to study the structure and function of the Internet, only a basic knowledge of number theory, abstract algebra, matrices and determinants, graph theory, geometry, analysis, optimization theory, probability theory, and stochastic processes, is required. These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering.

Participant group reports James Howard Zant 1960

An Introduction to Philosophical Analysis John Hospers 1967 This book provides an in-depth, problem-oriented introduction to philosophical analysis using an extremely clear, readable approach. The "Fourth Edition" does not only update coverage throughout the book, but also restores the introductory chapter "Words and the World" the most distinguished, widely acclaimed feature of the first two editions. "

Non-Euclidean Geometry and Curvature: Two-Dimensional Spaces, Volume 3 James W. Cannon 2017-11-08 This is the final volume of a three volume collection devoted to the geometry, topology, and curvature of 2-dimensional spaces. The collection provides a guided tour through a wide range of topics by one of the twentieth century's masters of geometric topology. The books are accessible to college and graduate students and provide perspective and insight to mathematicians at all levels who are interested in geometry and topology. Einstein showed how to interpret gravity as the dynamic response to the curvature of space-time. Bill Thurston showed us that non-Euclidean geometries and curvature are essential to the understanding of low-dimensional spaces. This third and final volume aims to give the reader a firm intuitive understanding of these concepts in dimension 2. The volume first demonstrates a number of the most important properties of non-Euclidean geometry by means of simple infinite graphs that approximate that geometry. This is followed by a long chapter taken from lectures the author gave at MSRI, which explains a more classical view of hyperbolic non-Euclidean geometry in all dimensions. Finally, the author explains a natural intrinsic obstruction to flattening a triangulated polyhedral surface into the plane without distorting the constituent triangles. That obstruction extends intrinsically to smooth surfaces by approximation and is called curvature. Gauss's original definition of curvature is extrinsic rather than intrinsic. The final two chapters show that the book's intrinsic definition is equivalent to Gauss's extrinsic definition (Gauss's "Theorema Egregium" ("Great Theorem")).

A Comprehensive Introduction to Differential Geometry Michael Spivak 1970

Spatial Database Systems Albert K.W. Yeung 2007-05-23 This book places spatial data within the broader domain of information technology (IT) while providing a comprehensive and coherent explanation of the guiding principles, methods, implementation and operational management of spatial databases within the workplace. The text explains the key concepts, issues and processes of spatial data implementation and provides a holistic management perspective.

Advanced Calculus of Several Variables C. H. Edwards 2014-05-10 Advanced Calculus of Several Variables provides a conceptual treatment of multivariable calculus. This book emphasizes the interplay of geometry, analysis through linear algebra, and approximation of nonlinear mappings by linear ones. The classical applications and computational methods that are responsible for much of the interest and importance of calculus are also considered. This text is organized into six chapters. Chapter I deals with linear algebra and geometry of Euclidean n-space Rn. The multivariable differential calculus is treated in Chapters II and III, while multivariable integral calculus is covered in Chapters IV and V. The last chapter is devoted to venerable problems of the calculus of variations. This publication is intended for students who have completed a standard introductory calculus sequence.

Mathematical Foundations in Engineering and Science Anthony N. Michel 1981

Plane-Strain Slip-Line Fields for Metal-Deformation Processes W. Johnson 2013-09-03 Plane-Strain Slip-Line Fields for Metal-Deformation Processes: A Source Book and Bibliography provides information pertinent to the theory and application of plain-train slip fields to metal-working problems. This book discusses the industrial importance of axial symmetry. Organized into seven chapters, this book begins with an overview of the oldest processes of metal forming, including forging, coining, hammering, drifting, cutting, or parting. This text then examines the basic aspects of the basic theory of classical plasticity. Other chapters consider the governing equations of the plane plastic flow of a rigid-perfectly plastic solid. This book discusses as well the methods for the solution of problems of plane plastic flow of a rigid-perfectly plastic solid. The final chapter deals with the application of the theory of plasticity to the quasi-static plane-strain deformation of an isotropic rigid-perfectly plastic, rate insensitive material. This book is a valuable resource for mechanical engineers, materials scientists, teachers, and research workers.

Refrigeration Engineering 1951 English abstracts from Kholodil'naia tekhnika.

Magill's Survey of Science Frank Northen Magill 1992

Mathematical Principles of the Internet, Two Volume Set Nirdosh Bhatnagar 2019-03-18 This two-volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering. The books do not aim to provide all of the mathematical foundations upon which the Internet is based. Instead, these cover only a partial panorama and the key principles. Volume 1 explores Internet engineering, while the supporting mathematics is covered in Volume 2. The chapters on mathematics complement those on the engineering episodes, and an effort has been made to make this work succinct, yet self-contained. Elements of information theory, algebraic coding theory, cryptography, Internet traffic, dynamics and control of Internet congestion, and queueing theory are discussed. In addition, stochastic networks, graph-theoretic algorithms, application of game theory to the Internet, Internet economics, data mining and knowledge discovery, and quantum computation, communication, and cryptography are also discussed. In order to study the structure and function of the Internet, only a basic knowledge of number theory, abstract algebra, matrices and determinants, graph theory, geometry, analysis, optimization theory, probability theory, and stochastic processes, is required.

These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering.

Geometry from a Differentiable Viewpoint John McCleary 1994 This book offers a new treatment of differential geometry which is designed to make the subject approachable for advanced undergraduates.

Fundamentals of Complementary and Alternative Medicine - E-Book Marc S. Micozzi 2014-11-20 Practitioners like you have been turning to Micozzi's comprehensive CAM text for the past 20 years. Filled with the most up-to-date information on scientific theory and research and updated contributions from world experts, Fundamentals of Complementary and Alternative Medicine, 5th Edition gives you a solid foundation of the therapies and evidence-based clinical applications for CAM — and expands your global perspective with new and updated chapters on healing systems from around the world. Dive into interesting discussions on massage, manual therapies and bodywork, yoga, chiropractic, osteopathy, herbal medicine, aromatherapy and essential oils therapy, "nature cure," naturopathy and naturopathic medicine, and nutrition and hydration. With its wide range of topics, this 20th anniversary edition is your ideal CAM reference! • A broad perspective traces CAM therapies from their beginnings to present day practices. • Clinical guides for selecting therapies, and new advances for matching the appropriate therapy to the individual patient, enables you to offer and/or recommend individualized patient care. • Expert contributors include well-known writers such as Kevin Ergil, Patch Adams, Joseph Pizzorno, and Marc Micozzi himself. • A unique synthesis of information, including historical usage, cultural and social analysis, current basic science theory and research, and a wide range of clinical investigations and observations, makes this text a focused, authoritative resource. • Suggested readings and references in each chapter list the best resources for further research and study. • Coverage of CAM therapies and systems includes those most commonly encountered or growing in popularity, so you can carefully evaluate each treatment. • An evidence-based approach focuses on treatments best supported by clinical trials and scientific evidence. • Observations from mechanisms of action to evidence of clinical efficacy answers questions of how, why, and when CAM therapies work. • Global coverage includes discussions of traditional healing arts from Europe, Asia, Africa, and the Americas. • NEW! Updated chapters feature new content and topics, including: challenges in integrative medicine, legal issues, CAM in the community, psychometric evaluation, placebo effect, stress management, and much more! • NEW! Updated guides on common herbal remedies in clinical practice, East and Southeast Asia, and native North and South America deliver the latest information. • NEW! Revised chapters with new contributors offer fresh perspectives on these important and relevant topics. • EXPANDED! Basic science content and new theory and research studies cover a wide range of sciences such as biophysics, biology and ecology, ethnomedicine, psychometrics, neurosciences, and systems theory. • NEW! New and expanded global ethnomedical systems include new content on Shamanism and Neo-Shamanism, Central and North Asia, Southeast Asia, Nepal and Tibet, Hawaii and South Pacific, Alaska and Pacific Northwest, and contemporary global healthcare.

Magill's Survey of Science: The standard model-X-ray determination of molecular structure Frank Northen Magill 1992

Encyclopedia of Education and Human Development Stephen J. Farenga 2015-07-17 This comprehensive and exhaustive reference work on the subject of education from the primary grades through higher education combines educational theory with practice, making it a unique contribution to the educational reference market. Issues related to human development and learning are examined by individuals whose specializations are in diverse areas including education, psychology, sociology, philosophy, law, and medicine. The book focuses on important themes in education and human development. Authors consider each entry from the perspective of its social and political conditions as well as historical underpinnings. The book also explores the people whose contributions have played a seminal role in the shaping of educational ideas, institutions, and organizations, and includes entries on these institutions and organizations. This work integrates numerous theoretical frameworks with field based applications from many areas in educational research.

Geometric Methods and Applications Jean Gallier 2011-06-04 This book is an introduction to the fundamental concepts and tools needed for solving problems of a geometric nature using a computer. It attempts to fill the gap between standard geometry books, which are primarily theoretical, and applied books on computer graphics, computer vision, robotics, or machine learning. This book covers the following topics: affine geometry, projective geometry, Euclidean geometry, convex sets, SVD and principal component analysis, manifolds and Lie groups, quadratic optimization, basics of differential geometry, and a glimpse of computational geometry (Voronoi diagrams and Delaunay triangulations). Some practical applications of the concepts presented in this book include computer vision, more specifically contour grouping, motion interpolation, and robot kinematics. In this extensively updated second edition, more material on convex sets, Farkas's lemma, quadratic optimization and the Schur complement have been added. The chapter on SVD has been greatly expanded and now includes a presentation of PCA. The book is well illustrated and has chapter summaries and a large number of exercises throughout. It will be of interest to a wide audience including computer scientists, mathematicians, and engineers. Reviews of first edition: "Gallier's book will be a useful source for anyone interested in applications of geometrical methods to solve problems that arise in various branches of engineering. It may help to develop the sophisticated concepts from the more advanced parts of geometry into useful tools for applications." (Mathematical Reviews, 2001) "...it will be useful as a reference book for postgraduates wishing to find the connection between their current problem and the underlying geometry." (The Australian Mathematical Society, 2001)

Java 3D API Jump-start Aaron E. Walsh 2002 Explains how to use Java to create to create three-dimensional graphics applications.

Resources in Education 1998

Mathematics Teaching 1967