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The Ethics of Science - David B. Resnik

2005-08-12

Ethics of Science is a comprehensive and student-friendly introduction to the study of ethics in science and scientific research. The book covers: * Science and Ethics * Ethical Theory and Applications * Science as a Profession * Standards of Ethical Conduct in Science * Objectivity in Research * Ethical Issues in the Laboratory * The Scientist in Society * Toward a More Ethical Science * Actual case studies include: Baltimore Affair * cold fusion * Milikan's oil drop experiments * human and animal cloning * Cold War experiments * Strategic Defence Initiative * the Challenger accident * Tobacco Research.

Illustrated Textbook of Paediatrics

Lissauer 2017-02-09

Thoroughly revised and updated, the fifth edition of this prize-winning title retains the high level of illustration and accessibility that has made it so popular worldwide with medical students and

trainees approaching clinical specialty exams. Illustrated Textbook of Paediatrics has been translated into eight languages over its life. Case studies. Summary boxes. Tips for patient education. Highly illustrated with 100s of colour images. Diseases consistently presented by Clinical features; Investigations; Management; Prognosis; and, where appropriate, Prevention. Separate chapters on Accidents Child protection Diabetes and endocrinology Inborn Errors of Metabolism New chapter on Global child health New co-editor, Will Carroll, Chair of MRCPCH Theory Examinations.

March's Advanced Organic Chemistry -

Michael B. Smith 2007-01-29

The Sixth Edition of a classic in organic chemistry continues its tradition of excellence Now in its sixth edition, March's Advanced Organic Chemistry remains the gold standard in organic chemistry. Throughout its six editions, students and chemists from around the world have relied on it as an essential resource for

planning and executing synthetic reactions. The Sixth Edition brings the text completely current with the most recent organic reactions. In addition, the references have been updated to enable readers to find the latest primary and review literature with ease. New features include: More than 25,000 references to the literature to facilitate further research Revised mechanisms, where required, that explain concepts in clear modern terms Revisions and updates to each chapter to bring them all fully up to date with the latest reactions and discoveries A revised Appendix B to facilitate correlating chapter sections with synthetic transformations

Onsite Wastewater Treatment Systems Manual
2002

"This manual contains overview information on treatment technologies, installation practices, and past performance."--Intro.

Fundamentals of Heat and Mass Transfer -
Theodore L. Bergman 2020-07-08

With Wiley's Enhanced E-Text, you get all the benefits of a downloadable, reflowable eBook with added resources to make your study time more effective. Fundamentals of Heat and Mass Transfer 8th Edition has been the gold standard of heat transfer pedagogy for many decades, with a commitment to continuous improvement by four authors' with more than 150 years of combined experience in heat transfer education, research and practice. Applying the rigorous and systematic problem-solving methodology that this text pioneered an abundance of examples and problems reveal the richness and beauty of the discipline. This edition makes heat and mass transfer more approachable by giving additional emphasis to fundamental concepts, while highlighting the relevance of two of today's most critical issues: energy and the environment.

Mechatronics- Clarence W. de Silva 2010-06-04
Now that modern machinery and electromechanical devices are typically being controlled using analog and digital electronics

and computers, the technologies of mechanical engineering in such a system can no longer be isolated from those of electronic and computer engineering. *Mechatronics: A Foundation Course* applies a unified approach to meet this *Renewable Energy Resources*- John Twidell 2006

"This second edition maintains the book's basis on fundamentals, whilst including experience gained from the rapid growth of renewable energy technologies as secure national resources and for climate change mitigation, more extensively illustrated with case studies and worked problems. The presentation has been improved throughout, along with a new chapter on economics and institutional factors. Each chapter begins with fundamental theory from a scientific perspective, then considers applied engineering examples and developments, and includes a set of problems and solutions and a bibliography of printed and web-based material for further study. Common

symbols and cross referencing apply throughout, essential data are tabulated in appendices. Sections on social and environmental aspects have been added to each technology chapter." -- back cover.

Design of Fluid Thermal Systems - William S. Janna 2009

This book is designed to serve senior-level engineering students taking a capstone design course in fluid and thermal systems design. It is built from the ground up with the needs and interests of practicing engineers in mind; the emphasis is on practical applications. The book begins with a discussion of design methodology, including the process of bidding to obtain a project, and project management techniques. The text continues with an introductory overview of fluid thermal systems (a pump and pumping system, a household air conditioner, a baseboard heater, a water slide, and a vacuum cleaner are among the examples given), and a review of the properties of fluids and the equations of fluid

mechanics. The text then offers an in-depth discussion of piping systems, including the economics of pipe size selection. Janna examines pumps (including net positive suction head considerations) and piping systems. He provides the reader with the ability to design an entire system for moving fluids that is efficient and cost-effective. Next, the book provides a review of basic heat transfer principles, and the analysis of heat exchangers, including double pipe, shell and tube, plate and frame cross flow heat exchangers. Design considerations for these exchangers are also discussed. The text concludes with a chapter of term projects that may be undertaken by teams of students.

Mechanical Measurements - S.P. Venkateshan
2021-07-01

This book focuses both on the basics and more complex topics in mechanical measurements such as measurement errors & statistical analysis of data, regression analysis, heat flux, measurement of pressure, and

radiation properties of surfaces. End of chapter problems, solved illustrations, and exercise problems are presented throughout the book to augment learning. It is a useful reference for students in both undergraduate and postgraduate programs. ^

Advanced Water Distribution Modeling and Management - Thomas M. Walski 2003

Accompanying CD-ROM includes: a 25-pipe academic version of WaterCAD with stand-alone interface; the WaterCAD files for individual problems; the WaterCAD user manual and an examination booklet for continuing education credits; Adobe Acrobat Reader software for viewing the manual and booklet.

LabVIEW - Rick Bitter 2006-09-29

Whether seeking deeper knowledge of LabVIEW®'s capabilities or striving to build enhanced VIs, professionals know they will find everything they need in *LabVIEW: Advanced Programming Techniques*. Now accompanied by *LabVIEW 2011*, this classic second edition,

focusing on LabVIEW 8.0, delves deeply into the classic features that continue to make LabVIEW one of the most popular and widely used graphical programming environments across the engineering community. The authors review the front panel controls, the Standard State Machine template, drivers, the instrument I/O assistant, error handling functions, hyperthreading, and Express VIs. It covers the introduction of the Shared Variables function in LabVIEW 8.0 and explores the LabVIEW project view. The chapter on ActiveX includes discussion of the Microsoft™ .NET® framework and new examples of programming in LabVIEW using .NET. Numerous illustrations and step-by-step explanations provide hands-on guidance. Reviewing LabVIEW 8.0 and accompanied by the latest software, LabVIEW: Advanced Programming Techniques, Second Edition remains an indispensable resource to help programmers take their LabVIEW knowledge to the next level. Visit the CRC website to

download accompanying software.

LabVIEW for Engineers - Ronald W. Larsen
2011

Based on the most current release of LabVIEW, LabVIEW for Engineers is designed for readers with little to no experience using LabVIEW. Part of Prentice Hall's ESource Program: ESource enables instructors to choose individual chapters from published books in the Prentice Hall ESource Series. The content available in this online book-building system covers topics in engineering problem-solving and design, graphics, and computer applications. Using this program, instructors can create a unique text for the introduction to engineering course that exactly matches their content requirements and teaching approach. www.prenhall.com/esource.

Beckmann and Ling's Obstetrics and Gynecology - Robert Casanova 2018-04-05

Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to

any online entitlements included with the product. Published in collaboration with the American College of Obstetrics and Gynecology, this highly respected resource provides the foundational knowledge medical students need to complete an Ob/Gyn rotation, pass national standardized exams, and competently care for women in clinical practice. Fully compliant with the College's guidelines, treatment recommendations, and committee opinions, the text also aligns with the Association of Professors of Gynecology and Obstetrics' educational objectives, upon which most clerkship evaluations and final exams are based.

Designing Brand Identity - Alina Wheeler
2012-10-11

A revised new edition of the bestselling toolkit for creating, building, and maintaining a strong brand From research and analysis through brand strategy, design development through application design, and identity standards through launch and governance, *Designing*

Brand Identity, Fourth Edition offers brand managers, marketers, and designers a proven, universal five-phase process for creating and implementing effective brand identity. Enriched by new case studies showcasing successful world-class brands, this Fourth Edition brings readers up to date with a detailed look at the latest trends in branding, including social networks, mobile devices, global markets, apps, video, and virtual brands. Features more than 30 all-new case studies showing best practices and world-class Updated to include more than 35 percent new material Offers a proven, universal five-phase process and methodology for creating and implementing effective brand identity

Mechatronics - Clarence W. de Silva 2004-11-29

While most books on the subject present material only on sensors and actuators, hardware and simulation, or modeling and control, *Mechatronics: An Integrated Approach* presents all of these topics in a single, unified volume from which users with a variety of

engineering backgrounds can benefit. The integrated approach emphasizes the design and inst

Mechanical Measurements - Thomas G. Beckwith 2007

In the field of mechanical measurements, Mechanical Measurements continues to set the standard. With an emphasis on precision and clarity, the authors have consistently crafted a text that has helped thousands of students grasp the fundamentals of the field. Mechanical Measurements 6th edition gives students a methodical, well thought-out presentation that covers fundamental issues common to all areas of measurement in Part One, followed by individual chapters on applied areas of measurement in Part Two. This modular format fits several different course formats and accommodates a wide variety of skill levels.

A Night to Remember - Walter Lord 1997

An absorbing, minute-by-minute account of the demise of the "unsinkable" Titanic, the massive

luxury liner that housed a French "sidewalk cafe" and a grand staircase, among other extravagances, but failed to provide enough lifeboats for the 2,207 passengers on board. Reissue.

Mechanical Measurements - Thomas G. Beckwith 1998

Introduction to Internal Combustion Engines - Richard Stone 2017-09-16

Now in its fourth edition, this textbook remains the indispensable text to guide readers through automotive or mechanical engineering, both at university and beyond. Thoroughly updated, clear, comprehensive and well-illustrated, with a wealth of worked examples and problems, its combination of theory and applied practice aids in the understanding of internal combustion engines, from thermodynamics and combustion to fluid mechanics and materials science. This textbook is aimed at third year undergraduate or postgraduate students on mechanical or

automotive engineering degrees. New to this Edition: - Fully updated for changes in technology in this fast-moving area - New material on direct injection spark engines, supercharging and renewable fuels - Solutions manual online for lecturers

Binocular Vision and Ocular Motility - Hermann M. Burian 1974

Introduction to Manufacturing Processes - John A. Schey 2000

Pharmaceutical Calculations Mitchell J. Stoklosa 1986

Modeling and Analysis of Dynamic Systems - Charles M. Close 2001-08-20

The book presents the methodology applicable to the modeling and analysis of a variety of dynamic systems, regardless of their physical origin. It includes detailed modeling of mechanical, electrical, electro-mechanical,

thermal, and fluid systems. Models are developed in the form of state-variable equations, input-output differential equations, transfer functions, and block diagrams. The Laplace-transform is used for analytical solutions. Computer solutions are based on MATLAB and Simulink.

Curriculum 21 - Heidi Hayes Jacobs 2010-01-05 "What year are you preparing your students for? 1973? 1995? Can you honestly say that your school's curriculum and the program you use are preparing your students for 2015 or 2020? Are you even preparing them for today?" With those provocative questions, author and educator Heidi Hayes Jacobs launches a powerful case for overhauling, updating, and injecting life into the K-12 curriculum. Sharing her expertise as a world-renowned curriculum designer and calling upon the collective wisdom of 10 education thought leaders, Jacobs provides insight and inspiration in the following key areas: * Content and assessment--How to identify what to keep,

what to cut, and what to create, and where portfolios and other new kinds of assessment fit into the picture. * Program structures--How to improve our use of time and space and groupings of students and staff. * Technology--How it's transforming teaching, and how to take advantage of students' natural facility with technology. * Media literacy--The essential issues to address, and the best resources for helping students become informed users of multiple forms of media. * Globalization--What steps to take to help students gain a global perspective. * Sustainability--How to instill enduring values and beliefs that will lead to healthier local, national, and global communities. * Habits of mind--The thinking habits that students, teachers, and administrators need to develop and practice to succeed in school, work, and life. The answers to these questions and many more make Curriculum 21 the ideal guide for transforming our schools into what they must become:

learning organizations that match the times in which we live.

An Introduction to Applied Cognitive Psychology - Anthony Esgate 2005

This book offers a student friendly review of recent research in the application of cognitive methods, theories and models to real-world scenarios.

Introduction to Instrumentation and Measurements - Robert B. Northrop 2018-09-03

Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of Introduction to Instrumentation and Measurements uses the authors' 40 years of teaching experience to expound on the theory, science, and art of modern instrumentation and measurements (I&M). What's New in This Edition: This edition includes material on modern integrated circuit (IC) and photonic sensors, micro-electro-mechanical (MEM) and

nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces, and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor dynamics, signal conditioning, and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance, Q, capacitance, and D Presents a survey of sensor mechanisms Includes a

description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and wireless instrumentation Introduces mechanical microsensors (MEMS and NEMS) Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents. Surgical Pathology Dissection - William H. Westra 2013-03-14

Filling the need for a comprehensive, fully-illustrated guide to the subject, this practical manual demonstrates a logical approach to the preparation, dissection, and handling of the tissue specimens most commonly encountered in today's surgical pathology laboratory. Each dissection is vividly illustrated with powerful 3D line drawings created exclusively for this book. The authors discuss the clinically important features of various types of specimens and lesions over the whole range of organ systems. The consistent approach provides a valuable conceptual framework for points to bear in mind during the dissection and each chapter concludes with a convenient reminder of the important issues to address in the surgical pathology report. Indispensable for staff pathologists, residents, pathologist's assistants, histotechnologists and other laboratory personnel.

Introduction to Computational Science
Angela B. Shiflet 2014-03-30

Computational science is an exciting new field at the intersection of the sciences, computer science, and mathematics because much scientific investigation now involves computing as well as theory and experiment. This textbook provides students with a versatile and accessible introduction to the subject. It assumes only a background in high school algebra, enables instructors to follow tailored pathways through the material, and is the only textbook of its kind designed specifically for an introductory course in the computational science and engineering curriculum. While the text itself is generic, an accompanying website offers tutorials and files in a variety of software packages. This fully updated and expanded edition features two new chapters on agent-based simulations and modeling with matrices, ten new project modules, and an additional module on diffusion. Besides increased treatment of high-performance computing and its applications, the book also includes additional quick review

questions with answers, exercises, and individual and team projects. The only introductory textbook of its kind—now fully updated and expanded Features two new chapters on agent-based simulations and modeling with matrices Increased coverage of high-performance computing and its applications Includes additional modules, review questions, exercises, and projects An online instructor's manual with exercise answers, selected project solutions, and a test bank and solutions (available only to professors) An online illustration package is available to professors
Lost Enlightenment - S. Frederick Starr
2015-06-02

The forgotten story of Central Asia's enlightenment—its rise, fall, and enduring legacy In this sweeping and richly illustrated history, S. Frederick Starr tells the fascinating but largely unknown story of Central Asia's medieval enlightenment through the eventful lives and astonishing accomplishments of its

greatest minds—remarkable figures who built a bridge to the modern world. Because nearly all of these figures wrote in Arabic, they were long assumed to have been Arabs. In fact, they were from Central Asia—drawn from the Persianate and Turkic peoples of a region that today extends from Kazakhstan southward through Afghanistan, and from the easternmost province of Iran through Xinjiang, China. Lost Enlightenment recounts how, between the years 800 and 1200, Central Asia led the world in trade and economic development, the size and sophistication of its cities, the refinement of its arts, and, above all, in the advancement of knowledge in many fields. Central Asians achieved signal breakthroughs in astronomy, mathematics, geology, medicine, chemistry, music, social science, philosophy, and theology, among other subjects. They gave algebra its name, calculated the earth's diameter with unprecedented precision, wrote the books that later defined European medicine, and penned

some of the world's greatest poetry. One scholar, working in Afghanistan, even predicted the existence of North and South America—five centuries before Columbus. Rarely in history has a more impressive group of polymaths appeared at one place and time. No wonder that their writings influenced European culture from the time of St. Thomas Aquinas down to the scientific revolution, and had a similarly deep impact in India and much of Asia. *Lost Enlightenment* chronicles this forgotten age of achievement, seeks to explain its rise, and explores the competing theories about the cause of its eventual demise. Informed by the latest scholarship yet written in a lively and accessible style, this is a book that will surprise general readers and specialists alike.

Introduction to Astronomy and Cosmology -

Ian Morison 2013-03-18

Introduction to Astronomy & Cosmology is a modern undergraduate textbook, combining both the theory behind astronomy with the very

latest developments. Written for science students, this book takes a carefully developed scientific approach to this dynamic subject. Every major concept is accompanied by a worked example with end of chapter problems to improve understanding. Includes coverage of the very latest developments such as double pulsars and the dark galaxy. Beautifully illustrated in full colour throughout. Supplementary web site with many additional full colour images, content, and latest developments.

Theory of Machines and Mechanisms -

Joseph Edward Shigley 1995

The second edition of Shigley-Uicker maintains the tradition of being very complete, thorough, and somewhat theoretical. The principal changes include an expansion and updating of the dynamics material, expansion of the chapter on gears, an expansion of the material on mechanisms, a new introductory chapter. Intended for the Kinematics and Dynamics course in Mechanical Engineering departments.

DeGarmo's Materials and Processes in Manufacturing - J. T. Black 2017-08-10

Newly revised for its twelfth edition, DeGarmo's Materials and Processes in Manufacturing, 12th Edition continues to be a market-leading text on manufacturing and manufacturing processes courses for over fifty years. Authors J T. Black and Ron Kohser have continued this book's long and distinguished tradition of exceedingly clear presentation and highly practical approach to materials and processes, presenting mathematical models and analytical equations only when they enhance the basic understanding of the material. Updated to reflect all current practices, standards, and materials, the twelfth edition has new coverage of additive manufacturing, lean engineering, and processes related to ceramics, polymers, and plastics.

Life 3. Max Tegmark 2017-08-29

New York Times Best Seller How will Artificial Intelligence affect crime, war, justice, jobs, society and our very sense of being human? The

rise of AI has the potential to transform our future more than any other technology—and there's nobody better qualified or situated to explore that future than Max Tegmark, an MIT professor who's helped mainstream research on how to keep AI beneficial. How can we grow our prosperity through automation without leaving people lacking income or purpose? What career advice should we give today's kids? How can we make future AI systems more robust, so that they do what we want without crashing, malfunctioning or getting hacked? Should we fear an arms race in lethal autonomous weapons? Will machines eventually outsmart us at all tasks, replacing humans on the job market and perhaps altogether? Will AI help life flourish like never before or give us more power than we can handle? What sort of future do you want? This book empowers you to join what may be the most important conversation of our time. It doesn't shy away from the full range of viewpoints or from the most controversial

issues—from superintelligence to meaning, consciousness and the ultimate physical limits on life in the cosmos.

Temperament (PLE: Emotion)- Arnold H. Buss
2014-11-20

Originally published in 1984, this title looks at the development of temperament in early life. At the time of publication there were three major perspectives on temperament: paediatrics, individual differences in infants, and inherited personality traits that appear in early life.

Whatever the diversity of these perspectives, they converge on personality traits that develop early in life, hence the title of this book. The authors start by looking at the main research in this field, then go on to discuss their own approach to temperament, building on their original theory from 1975.

Engineering the Guitar Richard Mark French
2008-12-16

A uniquely engaging description of the mechanics of the guitar, for engineers and

craftsmen alike. Clearly written in a conceptual language, it provides readers with an understanding of the dynamic behavior of the instrument, including structural and component dynamics, and various analytical models, such as discrete, finite element, and boundary element models. The text also covers manufacturing processes, including both handmade and mass produced instruments.

Atlas of Genodermatoses - Ruggero Caputo
2005-12-12

A lavishly illustrated guide to almost 200 inherited diseases of the skin, hair, and nails. Each entry includes synonyms, age of onset, clinical findings, complications, course, laboratory findings, diagnosis, therapy, and key references, adding up to far more than just a collection of photographs. In addition to being a clinical primer, this is also a work of scientific research and contains the first printed description of two new syndromes. The fast-moving world of genetic research means that the

latest genetic correlations, included here, render previous texts out of date. All specialists in Dermatology and Pediatrics should find this an invaluable front-line resource in the clinic.

Instrumentation Systems - B E Noltingk
2016-02-06

Jones' Instrument Technology, Volume 4: Instrumentation Systems is an installment of a book series on instrument technology. This volume deals with matters that are most common to all instruments and differs from the previous volumes in terms of length and practical or theoretical content. Chapter 1 gives insights into the types of components and construction used in commercial instrumentation. This chapter also includes topics such as instrument design, construction process, and its mechanical instruments. Chapter 2 discusses instrument's installation and management, along with several important notes. This chapter also includes discussions on instrument piping, cabling, earthing, and

testing. In Chapter 3, the topic shifts to why instrument sampling is important, whether it is solid, liquid, gas, or a mix of any of the three. Chapter 4 revolves around the application of electronic signal-processing techniques to transducers and instruments. The next few chapters of this book cover telemetry, display and recording, and pneumatic instrumentation. The last two chapters talk about the reliability and safeness. This book serves as a great reference for people who are interested in learning instrument technology.

Standard Handbook of Machine Design -
Joseph Edward Shigley 1996

The latest ideas in machine analysis and design have led to a major revision of the field's leading handbook. New chapters cover ergonomics, safety, and computer-aided design, with revised information on numerical methods, belt devices, statistics, standards, and codes and regulations. Key features include: *new material on ergonomics, safety, and computer-aided design;

*practical reference data that helps machines designers solve common problems--with a minimum of theory. *current CAS/CAM applications, other machine computational aids, and robotic applications in machine design. This definitive machine design handbook for product designers, project engineers, design engineers, and manufacturing engineers covers every aspect of machine construction and operations. Voluminous and heavily illustrated, it discusses

standards, codes and regulations; wear; solid materials, seals; flywheels; power screws; threaded fasteners; springs; lubrication; gaskets; coupling; belt drive; gears; shafting; vibration and control; linkage; and corrosion.

Mechanical Measurements & Instrumentation - R. K. Rajput 2009

Noni - Scot C. Nelson 2006-01-01