

Physical Sciences Chemistry P2 November 2012 Memorandum

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Geochemistry - William M. White 2013-01-22

This book provides a comprehensive introduction to the field of geochemistry. The book first lays out the 'geochemical toolbox': the basic principles and techniques of modern geochemistry, beginning with a review of thermodynamics and kinetics as they apply to the Earth and its environs. These basic concepts are then applied to understanding processes in aqueous systems and the behavior of trace elements in magmatic systems. Subsequent chapters introduce radiogenic and stable isotope geochemistry and illustrate their application to such diverse topics as determining geologic time, ancient climates, and the diets of prehistoric peoples. The focus then broadens to the formation of the solar system, the Earth, and the elements themselves. Then the composition of the Earth itself becomes the topic, examining the composition of the core, the mantle, and the crust and exploring how this structure originated. A final chapter covers organic chemistry, including the origin of fossil fuels and the carbon cycle's role in controlling Earth's climate, both in the geologic past and the rapidly changing present. Geochemistry is essential reading for all earth science students, as well as for researchers and applied scientists who require an introduction to the essential theory of geochemistry, and a survey of its applications in the earth and environmental sciences. Additional resources can be found

at: www.wiley.com/go/white/geochemistry

Probability, Statistics, and Stochastic Processes - Peter Olofsson
2012-05-22

Praise for the First Edition ". . . an excellent textbook . . . well organized and neatly written." —Mathematical Reviews ". . . amazingly interesting . . ." —Technometrics Thoroughly updated to showcase the interrelationships between probability, statistics, and stochastic processes, *Probability, Statistics, and Stochastic Processes*, Second Edition prepares readers to collect, analyze, and characterize data in their chosen fields. Beginning with three chapters that develop probability theory and introduce the axioms of probability, random variables, and joint distributions, the book goes on to present limit theorems and simulation. The authors combine a rigorous, calculus-based development of theory with an intuitive approach that appeals to readers' sense of reason and logic. Including more than 400 examples that help illustrate concepts and theory, the Second Edition features new material on statistical inference and a wealth of newly added topics, including: Consistency of point estimators Large sample theory Bootstrap simulation Multiple hypothesis testing Fisher's exact test and Kolmogorov-Smirnov test Martingales, renewal processes, and Brownian motion One-way analysis of variance and the general linear model

Extensively class-tested to ensure an accessible presentation, Probability, Statistics, and Stochastic Processes, Second Edition is an excellent book for courses on probability and statistics at the upper-undergraduate level. The book is also an ideal resource for scientists and engineers in the fields of statistics, mathematics, industrial management, and engineering.

Democracy and Education - John Dewey 1916

In this book, Dewey tries to criticize and expand on the educational philosophies of Rousseau and Plato. Dewey's ideas were seldom adopted in America's public schools, although a number of his prescriptions have been continually advocated by those who have had to teach in them.

Separation Process Principles - J. D. Seader 2016-01-20

Separation Process Principles with Applications Using Process Simulator, 4th Edition is the most comprehensive and up-to-date treatment of the major separation operations in the chemical industry. The 4th edition focuses on using process simulators to design separation processes and prepares readers for professional practice. Completely rewritten to enhance clarity, this fourth edition provides engineers with a strong understanding of the field. With the help of an additional co-author, the text presents new information on bioseparations throughout the chapters. A new chapter on mechanical separations covers settling, filtration and centrifugation including mechanical separations in biotechnology and cell lysis. Boxes help highlight fundamental equations. Numerous new examples and exercises are integrated throughout as well.

Think Python - Allen B. Downey 2015-12-02

If you want to learn how to program, working with Python is an excellent way to start. This hands-on guide takes you through the language a step at a time, beginning with basic programming concepts before moving on to functions, recursion, data structures, and object-oriented design. This second edition and its supporting code have been updated for Python 3. Through exercises in each chapter, you'll try out programming concepts as you learn them. Think Python is ideal for students at the high school or college level, as well as self-learners, home-schooled students, and

professionals who need to learn programming basics. Beginners just getting their feet wet will learn how to start with Python in a browser. Start with the basics, including language syntax and semantics Get a clear definition of each programming concept Learn about values, variables, statements, functions, and data structures in a logical progression Discover how to work with files and databases Understand objects, methods, and object-oriented programming Use debugging techniques to fix syntax, runtime, and semantic errors Explore interface design, data structures, and GUI-based programs through case studies
Chemical Principles - Steven S. Zumdahl 1998

Chemical Engineering Design - Gavin Towler 2012-01-25

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization.

Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Analytical Chemistry - Jean-Michel Mermet 2004-09-03

Why settle for less when you can have the whole of Analytical Chemistry in a single book? The successful all-in-one guide to modern Analytical Chemistry is now available in a new and updated edition. From the foundations of analytical science to state-of-the art techniques and instrumentation -- all you will ever need to know is explained here. The text covers both general analytical chemistry and instrumental analysis and may be used for most analytical chemistry courses offered today. Carefully chosen worked examples show how analytical problems can effectively be solved and how calculations should be performed. Study questions and recommended reading for further study are provided for each learning unit. The second edition has been carefully revised to keep up-to-date with advances in the technology of analytical methods in the

laboratory and in the workplace, including newly written chapters on multidimensional chromatography, sensors and screening systems. With its broad scope, the text doubles as a reliable reference for virtually all analytical problems encountered during the course of study and beyond. "Analytical Chemistry will serve as an excellent text as well as a valued reference following completion of the student's course of study." Journal of Medicinal Chemistry "It is a book that should be on the shelves of all analytical chemistry and biochemistry professionals, including those who work in the areas of clinical chemistry, food chemistry and forensic chemistry." Bulletin of the World Health Organisation "The book is a must-have reference for anyone trying to understand what techniques and technologies are available for the analytical chemist today."

Chemtech

Applications of Topological Methods in Molecular Chemistry -

Remi Chauvin 2016-04-19

This is the first edited volume that features two important frameworks, Hückel and quantum chemical topological analyses. The contributors, which include an array of academics of international distinction, describe recent applications of such topological methods to various fields and topics that provide the reader with the current state-of-the-art and give a flavour of the wide range of their potentialities.

Department of Defense Dictionary of Military and Associated

Terms - United States. Joint Chiefs of Staff 1994

Generation and Applications of Extra-Terrestrial Environments on Earth -

Daniel A. Beysens 2015-05-31

This book has been prepared under the auspice of the European Low Gravity Research Association (ELGRA). The main task of ELGRA is to foster the scientific community in Europe and beyond in conducting gravity and space-related research. This publication is dedicated to the science community, and especially to the next generation of scientists and engineers interested in space research and in the means to use Earth to reproduce the space environment. ELGRA provides a comprehensive description of space conditions and the means that have

been developed on Earth to perform space environmental and (micro-) gravity related research. . The book covers ground-based research instruments and environments for both life and physical sciences research. It discusses the opportunities and limitations of protocols and instruments to compensate gravity or simulate microgravity, such as clinostats, random positioning machines, levitating magnets, electric fields, vibrations, tail suspension or head down tilt, as well as centrifuges for hyper-g studies. Other space environmental conditions are addressed too, like cosmic radiation or Mars atmospheric and soil properties to be replicated and simulated on Earth. Future long duration of manned missions, personal well-being and crew interaction are major issues dealt with.

Greene's Protective Groups in Organic Synthesis - Peter G. M. Wuts
2012-12-20

The Fourth Edition of Greene's Protective Groups in Organic Synthesis continues to be an indispensable reference for controlling the reactivity of the most common functional groups during a synthetic sequence. This new edition incorporates the significant developments in the field since publication of the third edition in 1998, including... New protective groups such as the fluorosulfonyl family and the uniquely removable 2-methoxybenzenesulfonyl group for the protection of amines New techniques for the formation and cleavage of existing protective groups, with examples to illustrate each new technique Expanded coverage of the unexpected side reactions that occur with protective groups New chart covering the selective deprotection of silyl ethers 3,100 new references from the professional literature The content is organized around the functional group to be protected, and ranges from the simplest to the most complex and highly specialized protective groups.

Solutions Manual to Accompany Fundamentals of Engineering Thermodynamics - John R. Howell 1987

[A First Course in Probability](#) - Sheldon M. Ross 2002

This market-leading introduction to probability features exceptionally clear explanations of the mathematics of probability theory and explores

its many diverse applications through numerous interesting and motivational examples. The outstanding problem sets are a hallmark feature of this book. Provides clear, complete explanations to fully explain mathematical concepts. Features subsections on the probabilistic method and the maximum-minimums identity. Includes many new examples relating to DNA matching, utility, finance, and applications of the probabilistic method. Features an intuitive treatment of probability—intuitive explanations follow many examples. The Probability Models Disk included with each copy of the book, contains six probability models that are referenced in the book and allow readers to quickly and easily perform calculations and simulations.

Annuities and Sinking Funds - Harold Dougharty 1906

Not just hot air - UNESCO 2015-08-24

Calculus for Business, Economics, and the Social and Life Sciences - Laurence D. Hoffmann 2007-06-01

Calculus for Business, Economics, and the Social and Life Sciences introduces calculus in real-world contexts and provides a sound, intuitive understanding of the basic concepts students need as they pursue careers in business, the life sciences, and the social sciences. The new Ninth Edition builds on the straightforward writing style, practical applications from a variety of disciplines, clear step-by-step problem solving techniques, and comprehensive exercise sets that have been hallmarks of Hoffmann/Bradley's success through the years.

Beyond Earth - Asif A. Siddiqi 2018

This is a completely updated and revised version of a monograph published in 2002 by the NASA History Office under the original title *Deep Space Chronicle: A Chronology of Deep Space and Planetary Probes, 1958-2000*. This new edition not only adds all events in robotic deep space exploration after 2000 and up to the end of 2016, but it also completely corrects and updates all accounts of missions from 1958 to 2000--Provided by publisher.

Chemistry - Steven S. Zumdahl 2007

Contains discussion, illustrations, and exercises aimed at overcoming common misconceptions; emphasizes on models prevails; and covers topics such as: chemical foundations, types of chemical reactions and solution stoichiometry, electrochemistry, and organic and biological molecules.

Materials Science and Technology of Optical Fabrication - Tayyab I. Suratwala 2018-10-16

Covers the fundamental science of grinding and polishing by examining the chemical and mechanical interactions over many scale lengths Manufacturing next generation optics has been, and will continue to be, enablers for enhancing the performance of advanced laser, imaging, and spectroscopy systems. This book reexamines the age-old field of optical fabrication from a materials-science perspective, specifically the multiple, complex interactions between the workpiece (optic), slurry, and lap. It also describes novel characterization and fabrication techniques to improve and better understand the optical fabrication process, ultimately leading to higher quality optics with higher yield. *Materials Science and Technology of Optical Fabrication* is divided into two major parts. The first part describes the phenomena and corresponding process parameters affecting both the grinding and polishing processes during optical fabrication. It then relates them to the critical resulting properties of the optic (surface quality, surface figure, surface roughness, and material removal rate). The second part of the book covers a number of related topics including: developed forensic tools used to increase yield of optics with respect to surface quality (scratch/dig) and fracture loss; novel characterization and fabrication techniques used to understand/quantify the fundamental phenomena described in the first part of the book; novel and recent optical fabrication processes and their connection with the fundamental interactions; and finally, special techniques utilized to fabricate optics with high damage resistance. Focuses on the fundamentals of grinding and polishing, from a materials science viewpoint, by studying the chemical and mechanical interactions/phenomena over many scale lengths between the workpiece, slurry, and lap Explains how these

phenomena affect the major characteristics of the optic workpiece—namely surface figure, surface quality, surface roughness, and material removal rate Describes methods to improve the major characteristics of the workpiece as well as improve process yield, such as through fractography and scratch forensics Covers novel characterization and fabrication techniques used to understand and quantify the fundamental phenomena of various aspects of the workpiece or fabrication process Details novel and recent optical fabrication processes and their connection with the fundamental interactions *Materials Science and Technology of Optical Fabrication* is an excellent guidebook for process engineers, fabrication engineers, manufacturing engineers, optical scientists, and opticians in the optical fabrication industry. It will also be helpful for students studying material science and applied optics/photonics.

IBM Power 520 Technical Overview - Scott Vetter 2010-04-02

This IBM Redpaper publication is a comprehensive guide covering the IBM Power 520 server, machine type model 8203-E4A. The goal of this paper is to introduce this innovative server that includes IBM System i and IBM System p and new hardware technologies. The major hardware offerings include: - The POWER6 processor, available at frequencies of 4.2 GHz and 4.7 GHz. - Specialized POWER6 DDR2 memory that provides greater bandwidth, capacity, and reliability. - The 1 Gb or 10 Gb Integrated Virtual Ethernet adapter that brings native hardware virtualization to this server. - EnergyScale technology that provides features such as power trending, power-saving, capping of power, and thermal measurement. - PowerVM virtualization technology. - Mainframe continuous availability brought to the entry server environment. This Redpaper expands the current set of IBM Power System documentation by providing a desktop reference that offers a detailed technical description of the Power 520 system. This Redpaper does not replace the latest marketing materials and tools. It is intended as an additional source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

Physics for Scientists and Engineers, Volume 2 - Raymond A. Serway

2013-01-01

Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Knowledge Graphs - Aidan Hogan 2021-11-08

This book provides a comprehensive and accessible introduction to knowledge graphs, which have recently garnered notable attention from both industry and academia. Knowledge graphs are founded on the principle of applying a graph-based abstraction to data, and are now broadly deployed in scenarios that require integrating and extracting value from multiple, diverse sources of data at large scale. The book defines knowledge graphs and provides a high-level overview of how they are used. It presents and contrasts popular graph models that are commonly used to represent data as graphs, and the languages by which they can be queried before describing how the resulting data graph can be enhanced with notions of schema, identity, and context. The book discusses how ontologies and rules can be used to encode knowledge as well as how inductive techniques—based on statistics, graph analytics, machine learning, etc.—can be used to encode and extract knowledge. It covers techniques for the creation, enrichment, assessment, and refinement of knowledge graphs and surveys recent open and enterprise knowledge graphs and the industries or applications within which they have been most widely adopted. The book closes by discussing the current limitations and future directions along which knowledge graphs are likely to evolve. This book is aimed at students, researchers, and practitioners who wish to learn more about knowledge graphs and how they facilitate extracting value from diverse data at large scale. To make the book accessible for newcomers, running examples and graphical

notation are used throughout. Formal definitions and extensive references are also provided for those who opt to delve more deeply into specific topics.

Life Sciences, Grade 10 - Annemarie Gebhardt 2012-01-05

Study & Master Life Sciences Grade 10 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in Life Sciences. The comprehensive Learner's Book includes: * an expanded contents page indicating the CAPS coverage required for each strand * a mind map at the beginning of each module that gives an overview of the contents of that module * activities throughout that help develop learners' science knowledge and skills as well as Formal Assessment tasks to test their learning * a review at the end of each unit that provides for consolidation of learning * case studies that link science to real-life situations and present balanced views on sensitive issues. * 'information' boxes providing interesting additional information and 'Note' boxes that bring important information to the learner's attention

Advances in Wind Power - Rupp Carriveau 2012-11-21

Today's wind energy industry is at a crossroads. Global economic instability has threatened or eliminated many financial incentives that have been important to the development of specific markets. Now more than ever, this essential element of the world energy mosaic will require innovative research and strategic collaborations to bolster the industry as it moves forward. This text details topics fundamental to the efficient operation of modern commercial farms and highlights advanced research that will enable next-generation wind energy technologies. The book is organized into three sections, Inflow and Wake Influences on Turbine Performance, Turbine Structural Response, and Power Conversion, Control and Integration. In addition to fundamental concepts, the reader will be exposed to comprehensive treatments of topics like wake dynamics, analysis of complex turbine blades, and power electronics in small-scale wind turbine systems.

Introduction to Statistical Quality Control - Douglas C. Montgomery

2020-06-23

Once solely the domain of engineers, quality control has become a vital business operation used to increase productivity and secure competitive advantage. Introduction to Statistical Quality Control offers a detailed presentation of the modern statistical methods for quality control and improvement. Thorough coverage of statistical process control (SPC) demonstrates the efficacy of statistically-oriented experiments in the context of process characterization, optimization, and acceptance sampling, while examination of the implementation process provides context to real-world applications. Emphasis on Six Sigma DMAIC (Define, Measure, Analyze, Improve and Control) provides a strategic problem-solving framework that can be applied across a variety of disciplines. Adopting a balanced approach to traditional and modern methods, this text includes coverage of SQC techniques in both industrial and non-manufacturing settings, providing fundamental knowledge to students of engineering, statistics, business, and management sciences. A strong pedagogical toolset, including multiple practice problems, real-world data sets and examples, and incorporation of Minitab statistics software, provides students with a solid base of conceptual and practical knowledge.

Study and Master Life Sciences Grade 11 CAPS Study Guide - Gonasagaren S. Pillay 2014-08-21

PISA Take the Test Sample Questions from OECD's PISA Assessments - OECD 2009-02-02

This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

Physical Sciences, Grade 10 - Karin H. Kelder 2012-02-23

Study & Master Physical Sciences Grade 10 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in Physical Sciences.

The innovative Teacher's File includes: * guidance on the teaching of each lesson for the year * answers to all activities in the Learner's Book * assessment guidelines * photocopiable templates and resources for the teacher

Study and Master Physical Sciences Grade 11 CAPS Learner's Book - Karin H. Kelder 2012-09-10

Study & Master Physical Sciences Grade 11 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in Physical Sciences. The comprehensive Learner's Book: • explains key concepts and scientific terms in accessible language and provides learners with a glossary of scientific terminology to aid understanding. • provides for frequent consolidation in the Summative assessments at the end of each module • includes case studies that link science to real-life situations and present balanced views on sensitive issues • includes 'Did you know?' features providing interesting additional information • highlights examples, laws and formulae in boxes for easy reference.

Study and Master Physical Science Grade 11 `Teacher's Guide - Karin H. Kelder 2006-09-01

Study & Master Physical Sciences Grade 11 takes a fresh and innovative look at the world around us and links science to our everyday lives. All case studies and information on specialised fields, companies and institutions were personally researched by the author and verified by experts in those fields, companies and institutions.

Experimental and Quasi-Experimental Designs for Research - Donald T. Campbell 2015-09-03

We shall examine the validity of 16 experimental designs against 12 common threats to valid inference. By experiment we refer to that portion of research in which variables are manipulated and their effects upon other variables observed. It is well to distinguish the particular role of this chapter. It is not a chapter on experimental design in the Fisher (1925, 1935) tradition, in which an experimenter having complete mastery can schedule treatments and measurements for optimal

statistical efficiency, with complexity of design emerging only from that goal of efficiency. Insofar as the designs discussed in the present chapter become complex, it is because of the intransigency of the environment: because, that is, of the experimenter's lack of complete control.

Field Book for Describing and Sampling Soils - 1998

ERDA Energy Research Abstracts - United States. Energy Research and Development Administration 1976

Health Literacy - Institute of Medicine 2013-08-10

The roots of health literacy can be traced back to the national literacy movement in India under Gandhi and to aid groups working in Africa to promote education and health. The term health literacy was first used in 1974 and described as "health education meeting minimal standards for all school grade levels". From that first use the definition of health literacy evolved during the next 30 years with official definitions promulgated by government agencies and large programs. Despite differences among these definitions, they all hold in common the idea that health literacy involves the need for people to understand information that helps them maintain good health. Although the United States produces a majority of the research on health literacy, Europe has strong multinational programs as well as research efforts, and health literacy experts in developing countries have created successful programs implemented on a community level. Given these distinct strengths of efforts worldwide, there are many opportunities for collaboration. International collaboration can harness the United States' research power, Europe's multilingual and multinational experience, and developing nations' community-based programs to create robust programs and research that reach people-not based on language or nationality but on need and value. A workshop on international health literacy efforts that feature presentations and discussion about health literacy interventions from various countries as well as other topics related to international health literacy was held as the basis for this report. Health Literacy: Improving Health, Health Systems, and Health

Policy Around the World summarizes the findings and discussions at the workshop.

Conformity and Conflict - James P. Spradley 2012

Demonstrate the nature of culture and its influence on people's lives. For over 40 years, the best-selling *Conformity and Conflict* has brought together original readings and cutting edge research alongside classic works as a powerful way to study human behavior and events. Its readings cover a broad range of theoretical perspectives and demonstrate basic anthropological concepts. The Fourteenth Edition incorporates successful articles from past editions and fresh ideas from the field to show fascinating perspectives on the human experience.

Teaching and Learning Experience Personalize Learning - MyAnthroLab delivers proven results in helping students succeed, provides engaging experiences that personalize learning, and comes from a trusted partner with educational expertise and a deep commitment to helping students and instructors achieve their goals. Improve Critical Thinking - Articles, article introductions and review questions encourage students to examine their assumptions, discern hidden values, evaluate evidence, assess their conclusions, and more! Engage Students - Section parts, key terms, maps, a glossary and subject index all spark student interest and illustrate the reader's main points with examples and visuals from daily life. Support Instructors - Teaching your course just got easier! You can create a Customized Text or use our Instructor's Manual, Electronic "MyTest" Test Bank or PowerPoint Presentation Slides. Additionally, *Conformity and Conflict's* part introductions parallel the basic concepts taught in introductory courses - which allow the book to be used alone as a reader or in conjunction with a main text. Note: MyAnthroLab does not come automatically packaged with this text. To purchase MyAnthroLab, please visit www.MyAnthroLab.com or you can purchase a valuepack of the text + MyAnthroLab (at no additional cost): VP ISBN-10: 0205176011/ISBN-13: 9780205176014

Elements of Causal Inference - Jonas Peters 2017-11-29

A concise and self-contained introduction to causal inference, increasingly important in data science and machine learning. The

mathematization of causality is a relatively recent development, and has become increasingly important in data science and machine learning. This book offers a self-contained and concise introduction to causal models and how to learn them from data. After explaining the need for causal models and discussing some of the principles underlying causal inference, the book teaches readers how to use causal models: how to compute intervention distributions, how to infer causal models from observational and interventional data, and how causal ideas could be exploited for classical machine learning problems. All of these topics are discussed first in terms of two variables and then in the more general multivariate case. The bivariate case turns out to be a particularly hard problem for causal learning because there are no conditional independences as used by classical methods for solving multivariate cases. The authors consider analyzing statistical asymmetries between cause and effect to be highly instructive, and they report on their decade of intensive research into this problem. The book is accessible to readers with a background in machine learning or statistics, and can be used in graduate courses or as a reference for researchers. The text includes code snippets that can be copied and pasted, exercises, and an appendix with a summary of the most important technical concepts.

Physical Sciences, Grade 12 - Karin H. Kelder 2013-07-03

Study & Master Physical Sciences Grade 12 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in Physical Sciences.

Climate Intervention - National Research Council 2015-06-17

The signals are everywhere that our planet is experiencing significant climate change. It is clear that we need to reduce the emissions of carbon dioxide and other greenhouse gases from our atmosphere if we want to avoid greatly increased risk of damage from climate change. Aggressively pursuing a program of emissions abatement or mitigation will show results over a timescale of many decades. How do we actively remove carbon dioxide from the atmosphere to make a bigger difference more quickly? As one of a two-book report, this volume of Climate

Intervention discusses CDR, the carbon dioxide removal of greenhouse gas emissions from the atmosphere and sequestration of it in perpetuity. Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration introduces possible CDR approaches and then discusses them in depth. Land management practices, such as low-till agriculture, reforestation and afforestation, ocean iron fertilization, and land-and-ocean-based accelerated weathering, could amplify the rates of processes that are already occurring as part of the natural carbon cycle. Other CDR approaches, such as bioenergy with carbon capture and sequestration, direct air capture and sequestration, and traditional carbon capture and sequestration, seek to capture CO₂ from the atmosphere and dispose of it by pumping it underground at high pressure. This book looks at the pros and cons of these options and estimates possible rates of removal and total amounts that might be removed via these methods. With whatever portfolio of technologies the transition is achieved, eliminating the carbon dioxide emissions from the global energy and transportation systems will pose an enormous technical, economic, and social challenge that will likely take decades of concerted effort to achieve. Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration will help to better understand the potential cost and performance of CDR strategies to inform debate and decision making as we work to stabilize and reduce atmospheric concentrations of carbon dioxide.

Physical Science - National Learning Corporation 1988-06

The DSST Subject Standardized Tests are comprehensive college and graduate level examinations given by the Armed Forces, colleges and graduate schools. These exams enable students to earn college credit for what they have learned through self-study, on the job, or by other non-traditional means. The DSST Physical Science Passbook® prepares candidates for the DSST exam, which enables schools to award credit for knowledge acquired outside the normal classroom environment. It provides a series of informational texts as well as hundreds of questions and answers in the areas that will likely be covered on your upcoming exam, including but not limited to: physics; electricity and magnetism;

matter; chemical reactions; atomic structure; and more.