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Flow Control Through Bio-inspired Leading-Edge Tubercles Daniel T. H. New 2020-01-31

This book describes and explains the basis of bio-inspired, leading-edge tubercles based on humpback whale flippers as passive but effective flow control devices, as well as providing a comprehensive practical guide in their

applications. It first discusses the morphology of the humpback whale flipper from a biological perspective, before presenting detailed experimental and numerical findings from past investigations by various experts on the benefits of leading-edge tubercles and their engineering implementations. Leading-edge tubercle designs and functions have attracted considerable

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interest from researchers in terms of understanding their role in the underwater agility of these whales, and to exploit their flow dynamics in the development of new and novel engineering solutions. Extensive research over the past recent years has demonstrated that the maneuverability of these whales is at least in part due to the leading-edge tubercles acting as passive flow control devices to delay stall and increase lift in the post-stall regime. In addition to the inherent benefits in terms of aerodynamics and hydrodynamics, investigations into leading-edge tubercles have also broadened into areas of noise attenuation, stability and industrial applications. This book touches upon these areas, with an emphasis upon the effects of lifting-surface types, flow regimes, tubercle geometries, lifting-surface stability and potential industrial applications, among others. As such, it features contributions from key experts in the fields of biology, physics and engineering who have conducted significant studies into

understanding the various aspects of leading-edge tubercles. Given the broad coverage and in-depth analysis, this book will benefit academic researchers, practicing engineers and graduate students interested in tapping into such a unique but highly functional flow control strategy.

Stress Induced Neural Changes in Emotional Disorders Fushun Wang 2021-08-26
WIRELESS AND MOBILE NETWORK ARCHITECTURES Yi-Bang Lin 2008-01-01
Market_Desc: · Communications Engineers· Network Architects· Network Managers· Consultants· Software Engineers · Senior Undergraduate and Graduate Students Special Features: · Wireless and mobile market is quickly emerging and growing· Network architects and engineers need a comprehensive integration manual· The level and scope of the book is appropriate for decision-makers and network managers· Covers network integration of all 3rd generation mobile and wireless technologies About The Book: This is a

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comprehensive book that guides the network designers, engineers, managers, and consultants in the rebuilding and successful deployment of the devices over the new network. Dr. Yi-Bing Lin provides the perfect solution through this expansive guide. He is recognized as one of the top experts in mobile and wireless network architectures worldwide and his co-author is recognized as a close second.

Introduction to Probability Charles Miller Grinstead 2012-10 This text is designed for an introductory probability course at the university level for sophomores, juniors, and seniors in mathematics, physical and social sciences, engineering, and computer science. It presents a thorough treatment of ideas and techniques necessary for a firm understanding of the subject. The text is also recommended for use in discrete probability courses. The material is organized so that the discrete and continuous probability discussions are presented in a separate, but parallel, manner. This organization

does not emphasize an overly rigorous or formal view of probability and therefore offers some strong pedagogical value. Hence, the discrete discussions can sometimes serve to motivate the more abstract continuous probability discussions. Features: Key ideas are developed in a somewhat leisurely style, providing a variety of interesting applications to probability and showing some nonintuitive ideas. Over 600 exercises provide the opportunity for practicing skills and developing a sound understanding of ideas. Numerous historical comments deal with the development of discrete probability. The text includes many computer programs that illustrate the algorithms or the methods of computation for important problems. The book is a beautiful introduction to probability theory at the beginning level. The book contains a lot of examples and an easy development of theory without any sacrifice of rigor, keeping the abstraction to a minimal level. It is indeed a valuable addition to the study of probability

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theory. --Zentralblatt MATH

Teaching Mathematics in Grades 6 - 12

Randall E. Groth 2012-08-10 Teaching Mathematics in Grades 6 - 12 by Randall E. Groth explores how research in mathematics education can inform teaching practice in grades 6-12. The author shows preservice mathematics teachers the value of being a "researcher—constantly experimenting with methods for developing students' mathematical thinking—and connecting this research to practices that enhance students' understanding of the material. Ultimately, preservice teachers will gain a deeper understanding of the types of mathematical knowledge students bring to school, and how students' thinking may develop in response to different teaching strategies.

Prominin-1 (CD133): New Insights on Stem & Cancer Stem Cell Biology Denis Corbeil 2012-11-19 Prominin-1 or otherwise known as CD133 is a glycoprotein that is present in humans and mice. Since the first description of

prominin in 1997, in mouse neuroepithelial cells and in human hematopoietic stem cells as AC133 antigen, this molecule has aroused a large interest especially, as a stem cell marker, that gave rise to an ever growing body of publications and more recently its expression in cancer stem cells. Controversies as to its role as a cancer stem and its detection in different models, as well as its use as a prognostic marker have emerged. Yet, beyond its use as a stem cell and cancer stem cell marker, prominin-1/CD133 displays unique biological features and appears of importance in other processes like for example in retinal biogenesis. Indeed, this five-transmembrane plasma membrane glycoprotein, which marks membrane protrusions is associated with several essential processes like cell polarity, asymmetric cell division and membrane remodeling. We propose to review current knowledge about this intriguing molecule and present pertinent information to determine the biological role of prominins and

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assess their importance in medicine and cancer research. The primary audience for this book is geared towards scientists and researchers with interest in cancer stem cells, stem cells, cell biology, neurobiology, and regenerative medicine.

Statistical Machine Translation Philipp Koehn
2010 The dream of automatic language translation is now closer thanks to recent advances in the techniques that underpin statistical machine translation. This class-tested textbook from an active researcher in the field, provides a clear and careful introduction to the latest methods and explains how to build machine translation systems for any two languages. It introduces the subject's building blocks from linguistics and probability, then covers the major models for machine translation: word-based, phrase-based, and tree-based, as well as machine translation evaluation, language modeling, discriminative training and advanced methods to integrate linguistic annotation. The

book also reports the latest research, presents the major outstanding challenges, and enables novices as well as experienced researchers to make novel contributions to this exciting area. Ideal for students at undergraduate and graduate level, or for anyone interested in the latest developments in machine translation.

Precision Nutrition and Metabolic Syndrome Management Alfredo Martinez
2018 Precision Nutrition and Metabolic Syndrome Management.

Textbook of Environmental Studies for Undergraduate Courses Erach Bharucha
2005-11 The Importance Of Environmental Studies Cannot Be Disputed Since The Need For Sustainable Development Is A Key To The Future Of Mankind. Recognising This, The Honourable Supreme Court Of India Directed The Ugc To Introduce A Basic Course On Environmental Education For Undergraduate Courses In All Disciplines, To Be Implemented By Every University In The Country. Accordingly, The Ugc

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Constituted An Expert Committee To Formulate A Six-Month Core Module Syllabus For Environmental Studies. This Textbook Is The Outcome Of The Ugc S Efforts And Has Been Prepared As Per The Syllabus. It Is Designed To Bring About An Awareness On A Variety Of Environmental Concerns. It Attempts To Create A Pro-Environmental Attitude And A Behavioural Pattern In Society That Is Based On Creating Sustainable Lifestyles And A New Ethic Towards Conservation. This Textbook Stresses On A Balanced View Of Issues That Affect Our Daily Lives. These Issues Are Related To The Conflict Between Existing `Development Strategies And The Need For `Conservation . It Not Only Makes The Student Better Informed On These Concerns, But Is Expected To Lead The Student Towards Positive Action To Improve The Environment. Based On A Multidisciplinary Approach That Brings About An Appreciation Of The Natural World And Human Impact On Its Integrity, This Textbook Seeks Practical Answers

To Make Human Civilization Sustainable On The Earth S Finite Resources. Attractively Priced At Rupees One Hundred And Fifteen Only, This Textbook Covers The Syllabus As Structured By The Ugc, Divided Into 8 Units And 50 Lectures. The First 7 Units, Which Cover 45 Lectures Are Classroom Teaching-Based, And Enhance Knowledge Skills And Attitude To Environment. Unit 8 Is Based On Field Activities To Be Covered In 5 Lecture Hours And Would Provide Students With First Hand Knowledge On Various Local Environmental Issues.

Systems Analysis and Design Alan Dennis
2020-11-17 Systems Analysis and Design: An Object-Oriented Approach with UML, Sixth Edition helps students develop the core skills required to plan, design, analyze, and implement information systems. Offering a practical hands-on approach to the subject, this textbook is designed to keep students focused on doing SAD, rather than simply reading about it. Each chapter describes a specific part of the SAD

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process, providing clear instructions, a detailed example, and practice exercises. Students are guided through the topics in the same order as professional analysts working on a typical real-world project. Now in its sixth edition, this edition has been carefully updated to reflect current methods and practices in SAD and prepare students for their future roles as systems analysts. Every essential area of systems analysis and design is clearly and thoroughly covered, from project management, to analysis and design modeling, to construction, installation, and operations. The textbook includes access to a range of teaching and learning resources, and a running case study of a fictitious healthcare company that shows students how SAD concepts are applied in real-life scenarios.

Basic Abstract Algebra P. B. Bhattacharya
1994-11-25 This book provides a complete abstract algebra course, enabling instructors to select the topics for use in individual classes.

Valuepack Thomas Connolly 2005-08-01
Climate Change and Microbes Javid Ahmad
Parray 2022 "book provides an enlightening picture of the role of microbes for sustaining life systems and how climatic factors change the course of the processes. Climate Change and Microbes: Impacts and Vulnerability explores the little-addressed issue of the effects of climate change on microbial ecosystems and the influence of climate change on microbiome diversity across various habitats and regions. Recent years have seen the evidence that microbial communities are neither immune to disruption nor do they have the capacity to recover completely after a stressful climate event. This volume documents the important role of microorganisms as climate engineers and considers mitigation and adaptation strategies as well. It goes on to present the research that addresses a diverse array of topics on the impact of climate change on plant-microbe interactions and microbial aquatic life, change-induced

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aggravations in microbial populations and processes. The book also addresses microbial foodborne diseases resulting from challenging climates. Other topics include algae as indicators of climate change and strategies for facilitating sustainable agro-ecosystems. This book will be immensely helpful in the study of plant microbiology, agricultural sciences, biotechnology, climate science, and environmental microbiology. It will also be applicable to the field of microbial biotechnology, agricultural, and other life and environmental sciences"--

Nutrition and Cancer Vera C. Mazurak
2018-06-22 This book is a printed edition of the Special Issue "Nutrition and Cancer" that was published in *Nutrients*

REWAS 2013 Anne Kvithyld 2016-12-05 This volume compiles topics from the REWAS 2013 symposium at the TMS Annual Meeting, focusing on different aspects of sustainability. It discusses how to realize sustainability in such areas as

transportation, the built environment, electrical and electronic equipment and infrastructure, energy production, and water systems. Enabling sustainability topics include the use of metals and materials processing, recycling and recovery, as well as process design and modeling. The book focuses on understanding sustainability through life cycle management and analysis, systems modeling and design, and education and consumer awareness.

Web Development with Node and Express Ethan Brown 2014-07 Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all,

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allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0.

Computational Topology Herbert Edelsbrunner 2010 Combining concepts from topology and algorithms, this book delivers what its title promises: an introduction to the field of

computational topology. Starting with motivating problems in both mathematics and computer science and building up from classic topics in geometric and algebraic topology, the third part of the text advances to persistent homology. This point of view is critically important in turning a mostly theoretical field of mathematics into one that is relevant to a multitude of disciplines in the sciences and engineering. The main approach is the discovery of topology through algorithms. The book is ideal for teaching a graduate or advanced undergraduate course in computational topology, as it develops all the background of both the mathematical and algorithmic aspects of the subject from first principles. Thus the text could serve equally well in a course taught in a mathematics department or computer science department.

MLA Style Manual and Guide to Scholarly Publishing Joseph Gibaldi 1998 Provides information on stylistic aspects of research

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papers, theses, and dissertations, including sections on writing fundamentals, MLA documentation style, and copyright law

World Report on Ageing and Health World Health Organization 2015-10-22 The WHO World report on ageing and health is not for the book shelf it is a living breathing testament to all older people who have fought for their voice to be heard at all levels of government across disciplines and sectors. - Mr Bjarne Hastrup President International Federation on Ageing and CEO DaneAge This report outlines a framework for action to foster Healthy Ageing built around the new concept of functional ability. This will require a transformation of health systems away from disease based curative models and towards the provision of older-person-centred and integrated care. It will require the development sometimes from nothing of comprehensive systems of long term care. It will require a coordinated response from many other sectors and multiple levels of

government. And it will need to draw on better ways of measuring and monitoring the health and functioning of older populations. These actions are likely to be a sound investment in society's future. A future that gives older people the freedom to live lives that previous generations might never have imagined. The World report on ageing and health responds to these challenges by recommending equally profound changes in the way health policies for ageing populations are formulated and services are provided. As the foundation for its recommendations the report looks at what the latest evidence has to say about the ageing process noting that many common perceptions and assumptions about older people are based on outdated stereotypes. The report's recommendations are anchored in the evidence comprehensive and forward-looking yet eminently practical. Throughout examples of experiences from different countries are used to illustrate how specific problems can be

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addressed through innovation solutions. Topics explored range from strategies to deliver comprehensive and person-centred services to older populations to policies that enable older people to live in comfort and safety to ways to correct the problems and injustices inherent in current systems for long-term care.

Qualitative and Quantitative Analysis of Bioactive Natural Products 2018 Maria Carla Marcotullio 2019-04-04 Throughout most of history, medicinal plants and their active metabolites have represented a valuable source of compounds used to prevent and to cure several diseases. Interest in natural compounds is still high as they represent a source of novel biologically/pharmacologically active compounds. Due to their high structural diversity and complexity, they are interesting structural scaffolds that can offer promising candidates for the study of new drugs, functional foods, and food additives. Plant extracts are a highly complex mixture of compounds and

qualitative and quantitative analyses are necessary to ensure their quality. Furthermore, greener methods of extraction and analysis are needed today. This book is based on articles submitted for publication in the Special Issue entitled "Qualitative and Quantitative Analysis of Bioactive Natural Products" that collected original research and reviews on these topics. [Modern Algebra \(Abstract Algebra\)](#)

Guide to Computer Forensics and Investigations Bill Nelson 2014-11-07 Updated with the latest advances from the field, GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS, Fifth Edition combines all-encompassing topic coverage and authoritative information from seasoned experts to deliver the most comprehensive forensics resource available. This proven author team's wide ranging areas of expertise mirror the breadth of coverage provided in the book, which focuses on techniques and practices for gathering and analyzing evidence used to solve crimes

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involving computers. Providing clear instruction on the tools and techniques of the trade, it introduces readers to every step of the computer forensics investigation-from lab set-up to testifying in court. It also details step-by-step guidance on how to use current forensics software. Appropriate for learners new to the field, it is also an excellent refresher and technology update for professionals in law enforcement, investigations, or computer security. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Climate Change Science National Research Council 2001-06-28 The warming of the Earth has been the subject of intense debate and concern for many scientists, policy-makers, and citizens for at least the past decade. *Climate Change Science: An Analysis of Some Key Questions*, a new report by a committee of the National Research Council, characterizes the

global warming trend over the last 100 years, and examines what may be in store for the 21st century and the extent to which warming may be attributable to human activity.

Wings of Fire Avul Pakir Jainulabdeen Abdul Kalam 1999 Avul Pakir Jainulabdeen Abdul Kalam, The Son Of A Little-Educated Boat-Owner In Rameswaram, Tamil Nadu, Had An Unparalleled Career As A Defence Scientist, Culminating In The Highest Civilian Award Of India, The Bharat Ratna. As Chief Of The Country`S Defence Research And Development Programme, Kalam Demonstrated The Great Potential For Dynamism And Innovation That Existed In Seemingly Moribund Research Establishments. This Is The Story Of Kalam`S Rise From Obscurity And His Personal And Professional Struggles, As Well As The Story Of Agni, Prithvi, Akash, Trishul And Nag--Missiles That Have Become Household Names In India And That Have Raised The Nation To The Level Of A Missile Power Of International Reckoning.

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Encyclopedia of Buddhism Edward A. Irons 2008
Presents nearly seven hundred A-to-Z entries relating to Buddhism, including theological concepts, important figures, historical events, institutions, and movements; and includes entries on other religious practices such as Daoism and Confucianism.

The Google Resume Gayle Laakmann McDowell
2011-01-25

Sweet Invention Michael Krondl 2011-10-01
From the sacred fudge served to India's gods to the ephemeral baklava of Istanbul's harems, the towering sugar creations of Renaissance Italy, and the exotically scented macarons of twenty-first century Paris, the world's confectionary arts have not only mirrored social, technological, and political revolutions, they have also, in many ways, been in their vanguard. *Sweet Invention: A History of Dessert* captures the stories of sweet makers past and present from India, the Middle East, Italy, France, Vienna, and the United States, as author Michael Krondl meets with

confectioners around the globe, savoring and exploring the dessert icons of each tradition. Readers will be tantalized by the rich history of each region's unforgettable desserts and tempted to try their own hand at a time-honored recipe. A fascinating and rewarding read for any lover of sugar, butter, and cream, *Sweet Invention* embraces the pleasures of dessert while unveiling the secular, metaphysical, and even sexual uses that societies have found for it. MALDI MS Franz Hillenkamp 2013-10-08 This authoritative book on MALDI MS, now finally available in its second edition and edited by one of its inventors, gives an in-depth description of the many different applications, along with a detailed discussion of the technology itself. Thoroughly updated and expanded, with contributions from key players in the field, this unique book provides a comprehensive overview of MALDI MS along with its possibilities and limitations. The initial chapters deal with the technology and the instrumental setup, followed

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by chapters on the use of MALDI MS in protein research (including proteomics), genomics, glycomics and lipidomics. The option of MALDI-MS for the analysis of polymers and small molecules are also covered in separate chapters, while new to this edition is a section devoted to the interplay of MALDI MS and bioinformatics. A much-needed practical and educational asset for individuals, academic institutions and companies in the field of bioanalytics.

Fundamentals of Multimedia Ze-Nian Li

2014-04-09 This textbook introduces the “Fundamentals of Multimedia”, addressing real issues commonly faced in the workplace. The essential concepts are explained in a practical way to enable students to apply their existing skills to address problems in multimedia. Fully revised and updated, this new edition now includes coverage of such topics as 3D TV, social networks, high-efficiency video compression and conferencing, wireless and mobile networks, and their attendant technologies. Features: presents

an overview of the key concepts in multimedia, including color science; reviews lossless and lossy compression methods for image, video and audio data; examines the demands placed by multimedia communications on wired and wireless networks; discusses the impact of social media and cloud computing on information sharing and on multimedia content search and retrieval; includes study exercises at the end of each chapter; provides supplementary resources for both students and instructors at an associated website.

Writing a Successful Research Paper Stanley Chodorow 2011-12-01 This brief, practical guide offers a clear and comprehensive strategy for conceptualizing, approaching, and executing the task of writing a research paper in the humanities and social sciences. In addition, it provides: a critical and process-oriented approach to the tasks of topic selection, formulation of the research question, thesis development, and argumentation. judiciously

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selected examples drawn from a broad range of disciplines. concise treatment of the aims, methods, and conventions of scholarly research, including the opportunities and pitfalls of Internet use. a wealth of conceptual and organizational tools, and more.

Sams Teach Yourself HTML, CSS, and JavaScript All in One Julie C. Meloni

2011-11-21 Sams Teach Yourself HTML, CSS and JavaScript All in One The all-in-one HTML, CSS and JavaScript beginner's guide: covering the three most important languages for web development. Covers everything beginners need to know about the HTML and CSS standards and today's JavaScript and Ajax libraries - all in one book, for the first time Integrated, well-organized coverage expertly shows how to use all these key technologies together Short, simple lessons teach hands-on skills readers can apply immediately By best-selling author Julie Meloni Mastering HTML, CSS, and JavaScript is vital for any beginning web developer - and the

importance of these technologies is growing as web development moves away from proprietary alternatives such as Flash. Sams Teach Yourself HTML, CSS, and JavaScript All in One brings together everything beginners need to build powerful web applications with the HTML and CSS standards and the latest JavaScript and Ajax libraries. With this book, beginners can get all the modern web development knowledge you need from one expert source. Bestselling author Julie Meloni (Sams Teach Yourself PHP, MySQL and Apache All in One) teaches simply and clearly, through brief, hands-on lessons focused on knowledge you can apply immediately. Meloni covers all the building blocks of practical web design and development, integrating new techniques and features into every chapter. Each lesson builds on what's come before, showing you exactly how to use HTML, CSS, and JavaScript together to create great web sites. Natural Language Processing in Artificial Intelligence Brojo Kishore Mishra 2020-11-01

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This volume focuses on natural language processing, artificial intelligence, and allied areas. Natural language processing enables communication between people and computers and automatic translation to facilitate easy interaction with others around the world. This book discusses theoretical work and advanced applications, approaches, and techniques for computational models of information and how it is presented by language (artificial, human, or natural) in other ways. It looks at intelligent natural language processing and related models of thought, mental states, reasoning, and other cognitive processes. It explores the difficult problems and challenges related to partiality, underspecification, and context-dependency, which are signature features of information in nature and natural languages. Key features:

- Addresses the functional frameworks and workflow that are trending in NLP and AI
- Looks at the latest technologies and the major challenges, issues, and advances in NLP and AI

Explores an intelligent field monitoring and automated system through AI with NLP and its implications for the real world • Discusses data acquisition and presents a real-time case study with illustrations related to data-intensive technologies in AI and NLP

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Digital Entrepreneurship Mariusz Soltanifar

2020-11-13 This open access book explores the

global challenges and experiences related to digital entrepreneurial activities, using carefully selected examples from leading companies and economies that shape world business today and tomorrow. Digital entrepreneurship and the companies steering it have an enormous global impact; they promise to transform the business world and change the way we communicate with each other. These companies use digitalization and artificial intelligence to enhance the quality of decisions and augment their business and

customer operations. This book demonstrates how cloud services are continuing to evolve; how cryptocurrencies are traded in the banking industry; how platforms are created to commercialize business, and how, taken together, these developments provide new opportunities in the digitalized era. Further, it discusses a wide range of digital factors changing the way businesses operate, including artificial intelligence, chatbots, voice search, augmented and virtual reality, as well as cyber threats and data privacy management.

“Digitalization mirrors the Industrial Revolution’s impact. This book provides a complement of perspectives on the opportunities emanating from such a deep seated change in our economy. It is a comprehensive collection of thought leadership mapped into a very useful framework. Scholars, digital entrepreneurs and practitioners will benefit from this timely work.”
Gina O’Connor, Professor of Innovation Management at Babson College, USA “This book

defines and delineates the requirements for companies to enable their businesses to succeed in a post-COVID19 world. This book deftly examines how to accomplish and achieve digital entrepreneurship by leveraging cloud computing, AI, IoT and other critical technologies. This is truly a unique “must-read” book because it goes beyond theory and provides practical examples.” Charlie Isaacs, CTO of Customer Connection at Salesforce.com, USA “This book provides digital entrepreneurs useful guidance identifying, validating and building their venture. The international authors developed new perspectives on digital entrepreneurship that can support to create impact ventures.” Felix Staeritz, CEO FoundersLane, Member of the World Economic Forum Digital Leaders Board and bestselling author of FightBack, Germany
Chemistry, Biochemistry and Pharmacology of Hydrogen Sulfide Philip K. Moore 2015-07-10
This book puts hydrogen sulfide in context with

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other gaseous mediators such as nitric oxide and carbon monoxide, reviews the available mechanisms for its biosynthesis and describes its physiological and pathophysiological roles in a wide variety of disease states. Hydrogen sulfide has recently been discovered to be a naturally occurring gaseous mediator in the body. Over a relatively short period of time this evanescent gas has been revealed to play key roles in a range of physiological processes including control of blood vessel caliber and hence blood pressure and in the regulation of nerve function both in the brain and the periphery. Disorders concerning the biosynthesis or activity of hydrogen sulfide may also predispose the body to disease states such as inflammation, cardiovascular and neurological disorders. Interest in this novel gas has been high in recent years and many research groups worldwide have described its individual biological effects. Moreover, medicinal chemists are beginning to synthesize

novel organic molecules that release this gas at defined rates with a view to exploiting these new compounds for therapeutic benefit.

Elements of Set Theory Herbert B. Enderton 1977-05-23 This is an introductory undergraduate textbook in set theory. In mathematics these days, essentially everything is a set. Some knowledge of set theory is necessary part of the background everyone needs for further study of mathematics. It is also possible to study set theory for its own interest-- it is a subject with intriguing results about simple objects. This book starts with material that nobody can do without. There is no end to what can be learned of set theory, but here is a beginning.

Polymeric Biomaterials, Revised and Expanded Severian Dumitriu 2001-11-29 Offering nearly 7000 references-3900 more than the first edition-Polymeric Biomaterials, Second Edition is an up-to-the-minute source for plastics and biomedical engineers, polymer scientists,

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biochemists, molecular biologists, macromolecular chemists, pharmacists, cardiovascular and plastic surgeons, and graduate and medical students in these disciplines. Completely revised and updated, it includes coverage of genetic engineering, synthesis of biodegradable polymers, hydrogels, and mucoadhesive polymers, as well as polymers for dermacosmetic treatments, burn and wound dressings, orthopedic surgery, artificial joints, vascular prostheses, and in blood contacting systems.

Drug Abuse Handbook, Second Edition Steven B. Karch, MD, FFFLM 2006-12-21 Following the well-received first edition, the Drug Abuse Handbook, Second Edition is a thorough compendium of the knowledge of the pharmacological, medical, and legal aspects of drugs. The book examines criminalistics, pathology, pharmacokinetics, neurochemistry, treatment, as well as drugs and drug testing in the workplace and in sports, and the ethical,

legal, and practical issues involved. Dr. Karch gathers contributions from 80 leading experts in their respective fields to update and revise this second edition with more than 40 percent new material. New topics include genetic testing in drug death investigation, the neurochemistry of nicotine and designer amphetamines, genetic doping in sports, and the implications of the Daubert ruling on the admissibility of scientific evidence in federal court. Packed with the latest information in an easily accessible format, the book includes tables of all Scheduled Drugs, methods of Drug Quantitative Analysis, and a glossary of forensic toxicology terms. Vivid pictures and diagrams illustrate the pathological effects of drugs and the chemical make-up and breakdown of abused drugs. It includes more than 6000 references to the best sources in medicine, pharmacology, and the law. This book addresses specific problems in drug testing, drug-related medical emergencies, and the physical, neurochemical, and sociological

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phenomenon of addiction. With unparalleled detail and the highest level of authoritative information, The Drug Abuse Handbook, Second Edition is the definitive resource for drug related issues.

Geometry Harry Lewis 1978

Carbon Dioxide Utilization to Sustainable

Energy and Fuels Inamuddin 2021-11-30 This edited book provides an in-depth overview of carbon dioxide (CO₂) transformations to sustainable power technologies. It also discusses the wide scope of issues in engineering avenues, key designs, device fabrication,

characterizations, various types of conversions and related topics. It includes studies focusing on the applications in catalysis, energy conversion and conversion technologies, etc. This is a unique reference guide, and one of the detailed works is on this technology. The book is the result of commitments by leading researchers from various backgrounds and expertise. The book is well structured and is an essential resource for scientists, undergraduate, postgraduate students, faculty, R&D professionals, energy chemists and industrial experts.