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The first edition of ELL (1993, Ron Asher, Editor) was hailed as "the field's standard reference work for a generation". Now the all-new second edition matches ELL's comprehensiveness and high quality, expanded for a new generation, while being the first encyclopedia to really exploit the multimedia potential of linguistics. * The most authoritative, up-to-date, comprehensive, and international reference source in its field * An entirely new work, with new editors, new authors, new topics and newly commissioned articles with a handful of classic articles * The first Encyclopedia to exploit the multimedia potential of linguistics through the online edition * Ground-breaking and International in scope and approach * Alphabetically arranged with extensive cross-referencing * Available in print and online, priced separately. The online version will include updates as subjects develop ELL2 includes: * c. 7,500,000 words * c. 11,000 pages * c. 3,000 articles * c. 1,500 figures: 130 halftones and 150 colour * Supplementary audio, video and text files online * c. 3,500 glossary definitions * c. 39,000 references * Extensive list of commonly used abbreviations * List of languages of the world (including information on no. of speakers, language family, etc.) * Approximately 700 biographical entries (now includes contemporary linguists) * 200 language maps in print and online Also available online via ScienceDirect – featuring extensive browsing, searching, and internal cross-referencing between articles in the

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work, plus dynamic linking to journal articles and abstract databases, making navigation flexible and easy. For more information, pricing options and availability visit www.info.sciencedirect.com. The first Encyclopedia to exploit the multimedia potential of linguistics Ground-breaking in scope - wider than any predecessor An invaluable resource for researchers, academics, students and professionals in the fields of: linguistics, anthropology, education, psychology, language acquisition, language pathology, cognitive science, sociology, the law, the media, medicine & computer science. The most authoritative, up-to-date, comprehensive, and international reference source in its field

FASTR is what you get when a Silicon Valley product designer uses design thinking to successfully resolve a persistent and pernicious anal fissure. As I discovered, a chronic fissure (sometimes called an anal ulcer, anal lesion, or anal tear) can disrupt pretty much everything in life, robbing you of joy, peace, and productivity. If this condition is affecting you or a loved one, you're likely seeking a fast and lasting solution. Those were my goals, so I developed a protocol that worked for me. FASTR (Fissure-in-Ano Self-Treatment and Repair) consolidates key data, personal experience, a little discretion, and plenty of empathy in a way that can save you time and reduce suffering. I hope that sharing it as a pattern can help you build your own effective protocol. (This is the EPUB version. A PDF version is also available.)

UNESCO issued this publication to demystify the concept of open access (OA) and to

provide concrete steps on putting relevant policies in place. Its focus is on scientific research from peer-reviewed journal articles. Building capacities in Member States for Open Access is a necessary but not sufficient condition for promotion of the concept. Creating an enabling policy environment for OA is therefore a priority. This publication will serve the needs of OA policy development at the government, institutional and funding agency level. The overall objective of the Policy Guidelines is to promote Open Access in Member States by facilitating understanding of all relevant issues related to Open Access. The guidelines are not prescriptive in nature, but are suggestive to facilitate knowledge-based decision-making to adopt OA policies and strengthen national research systems.

Wikipedia's first twenty years: how what began as an experiment in collaboration became the world's most popular reference work. We have been looking things up in Wikipedia for twenty years. What began almost by accident--a wiki attached to an nascent online encyclopedia--has become the world's most popular reference work. Regarded at first as the scholarly equivalent of a Big Mac, Wikipedia is now known for its reliable sourcing and as a bastion of (mostly) reasoned interaction. How has Wikipedia, built on a model of radical collaboration, remained true to its original mission of "free access to the sum of all human knowledge" when other tech phenomena have devolved into advertising platforms? In this book, scholars, activists, and volunteers reflect on Wikipedia's first twenty years, revealing connections across disciplines and

borders, languages and data, the professional and personal.

How students get the materials they need as opportunities for higher education expand but funding shrinks. From the top down, *Shadow Libraries* explores the institutions that shape the provision of educational materials, from the formal sector of universities and publishers to the broadly informal ones organized by faculty, copy shops, student unions, and students themselves. It looks at the history of policy battles over access to education in the post–World War II era and at the narrower versions that have played out in relation to research and textbooks, from library policies to book subsidies to, more recently, the several “open” publication models that have emerged in the higher education sector. From the bottom up, *Shadow Libraries* explores how, simply, students get the materials they need. It maps the ubiquitous practice of photocopying and what are—in many cases—the more marginal ones of buying books, visiting libraries, and downloading from unauthorized sources. It looks at the informal networks that emerge in many contexts to share materials, from face-to-face student networks to Facebook groups, and at the processes that lead to the consolidation of some of those efforts into more organized archives that circulate offline and sometimes online—the shadow libraries of the title. If Alexandra Elbakyan's Sci-Hub is the largest of these efforts to date, the more characteristic part of her story is the prologue: the personal struggle to participate in global scientific and educational communities, and the recourse to a wide array of ad hoc strategies and networks when formal, authorized means are lacking. If

Elbakyan's story has struck a chord, it is in part because it brings this contradiction in the academic project into sharp relief—universalist in principle and unequal in practice. *Shadow Libraries* is a study of that tension in the digital era. Contributors Balázs Bodó, Laura Czerniewicz, Mirosław Filiciak, Mariana Fossatti, Jorge Gemetto, Eve Gray, Evelin Heidel, Joe Karaganis, Lawrence Liang, Pedro Mizukami, Jhessica Reia, Alek Tarkowski

The Periodic Table: Nature's Building Blocks: An Introduction to the Naturally Occurring Elements, Their Origins and Their Uses addresses how minerals and their elements are used, where the elements come from in nature, and their applications in modern society. The book is structured in a logical way using the periodic table as its outline. It begins with an introduction of the history of the periodic table and a short introduction to mineralogy. Element sections contain their history, how they were discovered, and a description of the minerals that contain the element. Sections conclude with our current use of each element. Abundant color photos of some of the most characteristic minerals containing the element accompany the discussion. Ideal for students and researchers working in inorganic chemistry, mineralogy and geology, this book provides the foundational knowledge needed for successful study and work in this exciting area. Describes the link between geology, minerals and chemistry to show how chemistry relies on elements from nature Emphasizes the connection between geology, mineralogy and daily life, showing how minerals contribute to the things we

use and in our modern economy Contains abundant color photos of each mineral that bring the periodic table to life

Chemical science has made major advances in the last few decades and has gradually transformed in to a highly multidisciplinary subject that is exciting academically and at the same time beneficial to human kind. In this context, we owe much to the foundations laid by great pioneers of chemistry who contributed new knowledge and created new directions. This book presents the lives and times of 21 great chemists starting from Lavoisier (18th century) and ending with Sanger. Then, there are stories of the great Faraday (19th century) and of the 20th century geniuses G N Lewis and Linus Pauling. The material in the book is presented in the form of stories describing important aspects of the lives of these great personalities, besides highlighting their contributions to chemistry. It is hoped that the book will provide enjoyable reading and also inspiration to those who wish to understand the secret of the creativity of these great chemists.

Encyclopedia of Cardiovascular Research and Medicine offers researchers over 200 articles covering every aspect of cardiovascular research and medicine, including fully annotated figures, abundant color illustrations and links to supplementary datasets and references. With contributions from top experts in the field, this book is the most reputable and easily searchable resource of cardiovascular-focused basic and translational content for students, researchers, clinicians and teaching faculty across

the biomedical and medical sciences. The panel of authors chosen from an international board of leading scholars renders the text trustworthy, contemporary and representative of the global scientific expertise in these domains. The book's thematic structuring of sections and in-depth breakdown of topics encourages user-friendly, easily searchable chapters. Cross-references to related articles and links to further reading and references will further guide readers to a full understanding of the topics under discussion. Readers will find an unparalleled, one-stop resource exploring all major aspects of cardiovascular research and medicine. Presents comprehensive coverage of every aspect of cardiovascular medicine and research Offers readers a broad, interdisciplinary overview of the concepts in cardiovascular research and medicine with applications across biomedical research Includes reputable, foundational content on genetics, cancer, immunology, cell biology and molecular biology Provides a multi-media enriched color-illustrated text with high quality images, graphs and tables.

Fitface - How to get a natural face-lift, tighten sagging skin, smooth wrinkles, build collagen and elastin. Look your best at any age. Fitface, is the best pain free alternative to needles or knives and only takes 15 minutes a day! 50% Info 50% How To - step by step, photograph by photograph in four stages - basic, beginner, intermediate and advance routines on How to achieve a fabulous fit face

3D industrial printing has become mainstream in manufacturing. This unique book is the first to focus on polymers as the printing material. The scientific literature with

respect to 3D printing is collated in this monograph. The book opens with a chapter on foundational issues such and presents a broad overview of 3D printing procedures and the materials used therein. In particular, the methods of 3d printing are discussed and the polymers and composites used for 3d printing are detailed. The book details the main fields of applications areas which include electric and magnetic uses, medical applications, and pharmaceutical applications. Electric and magnetic uses include electronic materials, actuators, piezoelectric materials, antennas, batteries and fuel cells. Medical applications are organ manufacturing, bone repair materials, drug-eluting coronary stents, and dental applications. The pharmaceutical applications are composite tablets, transdermal drug delivery, and patient-specific liquid capsules. A special chapter deals with the growing aircraft and automotive uses for 3D printing, such as with manufacturing of aircraft parts and aircraft cabins. In the field of cars, 3D printing is gaining importance for automotive parts (brake components, drives), for the fabrication of automotive repair systems, and even 3D printed vehicles.

The Encyclopedia of Nineteenth-Century Photography is the first comprehensive encyclopedia of world photography up to the beginning of the twentieth century. It sets out to be the standard, definitive reference work on the subject for years to come. Its coverage is global – an important ‘first’ in that authorities from all over the world have contributed their expertise and scholarship towards making this a truly comprehensive publication. The Encyclopedia presents new and ground-breaking research alongside

accounts of the major established figures in the nineteenth century arena. Coverage includes all the key people, processes, equipment, movements, styles, debates and groupings which helped photography develop from being 'a solution in search of a problem' when first invented, to the essential communication tool, creative medium, and recorder of everyday life which it had become by the dawn of the twentieth century. The sheer breadth of coverage in the 1200 essays makes the Encyclopedia of Nineteenth-Century Photography an essential reference source for academics, students, researchers and libraries worldwide.

"Matching the rigour of the analysis with an extraordinary pedagogical capacity, the authors unveil all the arcana of the 'openness' capitalism model and digital labour. Essential for scholars and students across the social and economic sciences." (Carlo Vercellone, Université de Paris 8, France) "This vital book is an objective and detailed assessment of the private capture of common value, concluding with an in-depth survey of what commons-friendly public authorities could do to defend the new 'commonwealth'." (Michel Bauwens, Founder of the P2P Foundation, The Netherlands) "An outstanding analysis of how digital capital uses openness as principle of capital accumulation and exploitation. A must-read for everyone who wants to understand what the internet and digital media are all about." (Christian Fuchs, University of Westminster, UK) This book tackles the concept of openness (as in open source software, open access and free culture), from a critical political economy perspective to

consider its encroachment by capitalist corporations, but also how it advances radical alternatives to cognitive capitalism. Drawing on four case studies, *Corporate Capitalism's Use of Openness* will add to discussion on open source software, open access content platforms, open access publishing, and open university courses. These otherwise disparate cases share two fundamental features: informational capitalist corporations base their successful business models on unpaid productive activities, play, attention, knowledge and labour, and do so crucially by resorting to ideological uses of concepts such as “openness”, “communities” and “sharing”. The authors present potential solutions and alternative regulations to counter these exploitative and alienating business models, and to foster digital knowledge commons, ranging from co-ops and commons-based peer production to state agencies' platforms. Their research and findings will appeal to students, academics and activists around the world in fields such as sociology, economy, media and communication, library and information science, political sciences and technology studies.

The story of the development of Taylor and Francis in this text is more than an isolated account of one small company - it throws light on the whole process of scientific communication during the last 200 years. In this bicentenary edition the story of the company's growth from the launch of the "Philosophical Magazine" and other scientific periodicals and books, into a significant academic publishing player is brought within the context of late 20th-century innovation and expansion.

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A concise introduction to the basics of open access, describing what it is (and isn't) and showing that it is easy, fast, inexpensive, legal, and beneficial. The Internet lets us share perfect copies of our work with a worldwide audience at virtually no cost. We take advantage of this revolutionary opportunity when we make our work “open access”: digital, online, free of charge, and free of most copyright and licensing restrictions. Open access is made possible by the Internet and copyright-holder consent, and many authors, musicians, filmmakers, and other creators who depend on royalties are understandably unwilling to give their consent. But for 350 years, scholars have written peer-reviewed journal articles for impact, not for money, and are free to consent to open access without losing revenue. In this concise introduction, Peter Suber tells us what open access is and isn't, how it benefits authors and readers of research, how we pay for it, how it avoids copyright problems, how it has moved from the periphery to the mainstream, and what its future may hold. Distilling a decade of Suber's influential writing and thinking about open access, this is the indispensable book on the subject for researchers, librarians, administrators, funders, publishers, and policy makers. Have you ever wondered how one day the media can assert that alcohol is bad for us and the next unashamedly run a story touting the benefits of daily alcohol consumption? Or how a drug that is pulled off the market for causing heart attacks ever got approved in the first place? How can average readers, who aren't medical doctors or Ph.D.s in biochemistry, tell what they should be paying attention to and what's, well,

just more bullshit? Ben Goldacre has made a point of exposing quack doctors and nutritionists, bogus credentialing programs, and biased scientific studies. He has also taken the media to task for its willingness to throw facts and proof out the window. But he's not here just to tell you what's wrong. Goldacre is here to teach you how to evaluate placebo effects, double-blind studies, and sample sizes, so that you can recognize bad science when you see it. You're about to feel a whole lot better.

Genomic and Personalized Medicine, Second Edition — winner of a 2013 Highly Commended BMA Medical Book Award for Medicine — is a major discussion of the structure, history, and applications of the field, as it emerges from the campus and lab into clinical action. As with the first edition, leading experts review the development of the new science, the current opportunities for genome-based analysis in healthcare, and the potential of genomic medicine in future healthcare. The inclusion of the latest information on diagnostic testing, population screening, disease susceptibility, and pharmacogenomics makes this work an ideal companion for the many stakeholders of genomic and personalized medicine. With advancing knowledge of the genome across and outside protein-coding regions of DNA, new comprehension of genomic variation and frequencies across populations, the elucidation of advanced strategic approaches to genomic study, and above all in the elaboration of next-generation sequencing, genomic medicine has begun to achieve the much-vaunted transformative health outcomes of the Human Genome Project, almost a decade after its official completion

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in April 2003. Highly Commended 2013 BMA Medical Book Award for Medicine More than 100 chapters, from leading researchers, review the many impacts of genomic discoveries in clinical action, including 63 chapters new to this edition Discusses state-of-the-art genome technologies, including population screening, novel diagnostics, and gene-based therapeutics Wide and inclusive discussion encompasses the formidable ethical, legal, regulatory and social challenges related to the evolving practice of genomic medicine Clearly and beautifully illustrated with 280 color figures, and many thousands of references for further reading and deeper analysis

Nationalism has unexpectedly become a leading local and international force since the end of the Cold War. Long predicted to give way to pan-national or economic organizations, nationalism exerts its tremendous force on all continents and in a wide variety of ways. The Encyclopedia of Nationalism captures the aims and scope of this force through a wide-ranging examination of concepts, figures, movements, and events. It is the only encyclopedic study of nationalism available today. Key Features *

International Editorial Board * Articles begin with short glossaries and conclude with short bibliographies of titles essential for further reading * Website devoted to project at www.academicpress.com/nations

This is the 70th encyclopaedia of library and information science. It covers topics such as: intelligent systems for problem analysis in organizations; interactive system design; international models of school library development; lexicalization in natural language

generation; and more.

Examines the fundamental values that have characterized the development of medical librarianship since its foundation. This work focuses on the development of medical librarianship in the English speaking world, in particular North America, and contains major issues in international cooperation including the provision of medical information. This book explores the emergence and development of the legal concept of fair and equitable benefit-sharing, and its application in agriculture. Developed in the 1990s, the concept of fair and equitable benefit-sharing has been deployed in an ever-wider variety of international instruments, including those on biodiversity, climate change and human rights. A lack of clarity persists, however, on what fair and equitable benefit-sharing requires and entails, and whether its implementation supports or eventually undermines equity and justice. This book examines these questions in the area of land, food and agriculture, addressing for the first time several instances of the agricultural production chain, including research and development, land governance and land use and access to markets. It identifies challenges regarding implementation of the concept as enshrined in environmental treaties and soft-law instruments, with a focus on the International Treaty on Plant Genetic Resources for Food and Agriculture, the Voluntary Guidelines on Tenure and the UN Declaration on the Rights of Peasants. It investigates its role, enabling conditions and limitations, in a contradictory policy context involving environmental, food security and human rights objectives but also a growing web of

multilateral and bilateral trade and investment agreements. Linking international law research with a socio-legal analysis, the book addresses four grassroots examples, which offer ideas for institutional and legal innovation from the local to the global level. This interdisciplinary title will be of great interest to students and scholars of international environmental law, agriculture, land law, development studies and global governance, as well as policymakers and practitioners working in these fields. "The Open Access version of this book, available at <https://doi.org/10.4324/9780429198304>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license."

The quaternary sciences constitute a dynamic, multidisciplinary field of research that has been growing in scientific and societal importance in recent years. This branch of the Earth sciences links ancient prehistory to modern environments. Quaternary terrestrial sediments contain the fossil remains of existing species of flora and fauna, and their immediate predecessors. Quaternary science plays an integral part in such important issues for modern society as groundwater resources and contamination, sea level change, geologic hazards (earthquakes, volcanic eruptions, tsunamis), and soil erosion. With over 360 articles and 2,600 pages, many in full-color, the Encyclopedia of Quaternary Science provides broad ranging, up-to-date articles on all of the major topics in the field. Written by a team of leading experts and under the guidance of an international editorial board, the articles are at a level that allows undergraduate

students to understand the material, while providing active researchers with the latest information in the field. Also available online via ScienceDirect (2006) – featuring extensive browsing, searching, and internal cross-referencing between articles in the work, plus dynamic linking to journal articles and abstract databases, making navigation flexible and easy. For more information, pricing options and availability visit www.info.sciencedirect.com. 360 individual articles written by prominent international authorities, encompassing all important aspects of quaternary science Each entry provides comprehensive, in-depth treatment of an overview topic and presented in a functional, clear and uniform layout Reference section provides guidance for further research on the topic Article text supported by full-color photos, drawings, tables, and other visual material Writing level is suited to both the expert and non-expert

Electrochemistry plays a key role in a broad range of research and applied areas including the exploration of new inorganic and organic compounds, biochemical and biological systems, corrosion, energy applications involving fuel cells and solar cells, and nanoscale investigations. The Handbook of Electrochemistry serves as a source of electrochemical information, providing details of experimental considerations, representative calculations, and illustrations of the possibilities available in electrochemical experimentation. The book is divided into five parts: Fundamentals, Laboratory Practical, Techniques, Applications, and Data. The first section covers the fundamentals of electrochemistry which are essential for everyone working in the field,

presenting an overview of electrochemical conventions, terminology, fundamental equations, and electrochemical cells, experiments, literature, textbooks, and specialized books. Part 2 focuses on the different laboratory aspects of electrochemistry which is followed by a review of the various electrochemical techniques ranging from classical experiments to scanning electrochemical microscopy, electrogenerated chemiluminescence and spectroelectrochemistry. Applications of electrochemistry include electrode kinetic determinations, unique aspects of metal deposition, and electrochemistry in small places and at novel interfaces and these are detailed in Part 4. The remaining three chapters provide useful electrochemical data and information involving electrode potentials, diffusion coefficients, and methods used in measuring liquid junction potentials. * serves as a source of electrochemical information * includes useful electrochemical data and information involving electrode potentials, diffusion coefficients, and methods used in measuring liquid junction potentials * reviews electrochemical techniques (incl. scanning electrochemical microscopy, electrogenerated chemiluminescence and spectroelectrochemistry)

The Role of the Electronic Resources Librarian focuses on longstanding hurdles to the transition of libraries from print collections, to online information services, all from an Electronic Resources Librarian (ERL) perspective. Problems covered include cost containment for electronic serials, web design, discovery, customer service, efficiency, and adapting organizations to the needs of contemporary users. The title considers the

historical development of the ERL role, how the position emerged in North America in the 1990s, how it is represented within the organizational structure of academic libraries, and how the ERL role maps to technology, information services, and professional identity trends. Explores the changing role of the Electronic Resources Librarian (ERL) Identifies long-term trends in Electronic Resource Management Recommends best practices for the ERL role in modern libraries Contextualizes the current ERL role in historical and current developments Maps the ERL role to trends in technology, information services and the shifting professional identity of academic librarians

This book introduces readers to the principles underlying digital libraries, illustrating these principles by reference to a wide range of digital library practices throughout the world. Individual chapters deal with issues such as: digital library users and the services that are offered to them, the standards and protocols with which digital libraries must operate in order to cooperate with other institutions, and issues such as the administration of digital libraries, including discussion of intellectual property rights and preservation issues. A final chapter comprises eight case studies drawn from all over the world, used to illustrate points made in earlier chapters. Throughout the book, the challenges of developing and implementing digital library systems in multilingual and multicultural environments are explored.

The science and technology of biomechanics and robotics promise to be some of the

most influential research directions of the twenty-first century. Biomechanics and Robotics goes beyond the individual areas of biomechanics, robotics, biomedical engineering, biomechatronics, and biologically inspired robotics to provide the first unified textbook on the subject. It offers a "big picture" look at the state-of-the-art science and technology. With numerous figures, references, and exercises, the book presents a pedagogical introduction to a variety of topics, reviews historical developments, and gives up-to-date insights on modern-day biomechanics and robotics.

The Encyclopedia of Food and Health provides users with a solid bridge of current and accurate information spanning food production and processing, from distribution and consumption to health effects. The Encyclopedia comprises five volumes, each containing comprehensive, thorough coverage, and a writing style that is succinct and straightforward. Users will find this to be a meticulously organized resource of the best available summary and conclusions on each topic. Written from a truly international perspective, and covering of all areas of food science and health in over 550 articles, with extensive cross-referencing and further reading at the end of each chapter, this updated encyclopedia is an invaluable resource for both research and educational needs. Identifies the essential nutrients and how to avoid their deficiencies Explores the use of diet to reduce disease risk and optimize health Compiles methods for detection and quantitation of food constituents, food additives and nutrients, and contaminants

Contains coverage of all areas of food science and health in nearly 700 articles, with extensive cross-referencing and further reading at the end of each chapter

For disciplines concerned with human well-being, such as medicine, psychology, and law, statistics must be used in accordance with standards for ethical practice. A Statistical Guide for the Ethically Perplexed illustrates the proper use of probabilistic and statistical reasoning in the behavioral, social, and biomedical sciences. Designed to be consulted when learning formal statistical techniques, the text describes common instances of both correct and false statistical and probabilistic reasoning. Lauded for their contributions to statistics, psychology, and psychometrics, the authors make statistical methods relevant to readers' day-to-day lives by including real historical situations that demonstrate the role of statistics in reasoning and decision making. The historical vignettes encompass the English case of Sally Clark, breast cancer screening, risk and gambling, the Federal Rules of Evidence, "high-stakes" testing, regulatory issues in medicine, difficulties with observational studies, ethics in human experiments, health statistics, and much more. In addition to these topics, seven U.S. Supreme Court decisions reflect the influence of statistical and psychometric reasoning and interpretation/misinterpretation. Exploring the intersection of ethics and statistics, this comprehensive guide assists readers in becoming critical and ethical consumers and producers of statistical reasoning and analyses. It will help them reason correctly and use statistics in an ethical manner.

Feeding Everyone No Matter What presents a scientific approach to the practicalities of planning for long-term interruption to food production. The primary historic solution developed over the last several decades is increased food storage. However, storing up enough food to feed everyone would take a significant amount of time and would increase the price of food, killing additional people due to inadequate global access to affordable food. Humanity is far from doomed, however, in these situations - there are solutions. This book provides an order of magnitude technical analysis comparing caloric requirements of all humans for five years with conversion of existing vegetation and fossil fuels to edible food. It presents mechanisms for global-scale conversion including: natural gas-digesting bacteria, extracting food from leaves, and conversion of fiber by enzymes, mushroom or bacteria growth, or a two-step process involving partial decomposition of fiber by fungi and/or bacteria and feeding them to animals such as beetles, ruminants (cows, deer, etc), rats and chickens. It includes an analysis to determine the ramp rates for each option and the results show that careful planning and global cooperation could ensure the bulk of humanity and biodiversity could be maintained in even in the most extreme circumstances. Summarizes the severity and probabilities of global catastrophe scenarios, which could lead to a complete loss of agricultural production More than 10 detailed mechanisms for global-scale solutions to the food crisis and their evaluation to test their viability Detailed roadmap for future R&D for human survival after global catastrophe

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Building on the success of the 14 previous editions, this remarkable reference has been extensively reorganized and expanded and now comprises almost 1,500 individual drug articles providing the most complete coverage of adverse reactions and interactions found anywhere. Each article contains detailed and authoritative information about the adverse effects of each drug, with comprehensive references to the primary literature making this a must have for any academic or medical library, pharmacologist, regulatory organization, hospital dispensary or pharmaceutical company. Now available online for all academic, corporate or government institution as well as individuals via Science Direct! The online version provides an unparalleled depth of coverage and functionality by offering convenient desktop access and enhanced features such as increased searchability, extensive internal cross-linking and fully downloadable and printable full-text, HTML or PDF articles. Enhanced encyclopedic format with drug monographs now organised alphabetically Completely expanded coverage of each drug - thalidomide warranted three sentences in Meyler's 14th edition, but is now a 13 page extensive monograph Clearer, systematic organization of information for easier reading including case histories to provide perspective on each listing Extensive bibliography with over 40,000 references - Meyler's 15th edition incorporates all relevant citations from Meyler's 14th, but also includes relevant citations from previous editions of Meyler's and Side Effects of Drugs Annuals to give a historical perspective on the use and safety of drugs

Linear Incremental Hydraulic Actuators combine one or more short-stroke cylinders, and two or more engaging/disengaging mechanisms into one actuator with long, medium, or even unlimited stroke length. The motion of each single short-stroke actuator concatenated by the engaging/disengaging mechanisms forms the motion of the linear incremental hydraulic actuator. The patterns of how these motions are concatenated form the gaits of a specific linear incremental hydraulic actuator. Linear incremental hydraulic actuators may have more than one gait. In an application, the gaits may be combined to achieve optimal performance at various operating points. The distinguishing characteristic of linear incremental hydraulic actuators is the incremental motion. The term incremental actuator is seen as analogous to the incremental versus absolute position sensor. Incremental actuators realize naturally relative positioning. Incremental motion means also that the behavior does not depend on an absolute position but only on the relative position within a cycle or step. Incremental actuators may realize discrete incremental or continuous incremental motion. Discrete incremental actuators can only approach discrete positions, whereby stepper drives are one prominent example. In contrast, continuous incremental actuators may approach any position. Linear electric motors are one example of continuous incremental actuators. The actuator has no inherent limitation in stroke length, as every step or cycle adds only to the state at the beginning of the step or cycle and does not depend on the absolute position. This led to the alternative working title Hydraulic Infinite Linear

Actuator. Linear incremental hydraulic actuator provides long stroke, high force, and linear motion and has the potential to decrease the necessary resource usage, minimize environmental impact, e.g. from potential oil spillage, extend the range of feasible products: longer, stiffer, better, etc. This thesis presents an analysis of the characteristics and properties of linear incremental hydraulic actuators as well as the gaits and possible realizations of some gaits. The gait for continuous, smooth motion with two cylinders is comprehensively studied and a control concept for the tracking problem is proposed. The control concept encapsulates the complexity of the linear incremental hydraulic actuator so that an application does not have to deal with it. One other gait, the ballistic gait, which realizes fast, energy-efficient motion, enabling energy recuperation is studied.

Gives the IT professional an insight into the business world of investment banking. This book contains 12 chapters that cover: a description of business divisions for and boutique investment banks; trends in investment banking; overview of the asset classes; the trading life cycle and how it maps to the software development life cycle; and more.

Managing Tourism presents research studies that analyze the trends and information on the wide spectrum of tourism activities and industries. The book is comprised of 30 chapters that are organized into 10 parts. Part One discusses the future, impacts, and significance of tourism and Part Two deals with business growth and development. The

text also tackles governments, markets, and industries, and then discusses product concepts. The air transport competition is also explained in the book. Subsequent parts cover tourist management and technologies. The last two parts tackle the Third World issues and the limits and threats to tourism. The book will be of great interest to readers concerned with the various aspects of tourism.

There are a lot of things to say about all these characteristics, but I would prefer not to bore you with a lot of details. The focus would be to compress the most important knowledge into a few words. Each chapter would run through the English alphabets A to Z and would carry just enough for your assimilation and employability.

Questions about access to scholarship have always raged. The great libraries of the past stood as arguments for increasing access. John Willinsky describes the latest chapter in this ongoing story - online open access publishing by scholarly journals and makes a case for open access as a public good.

Encyclopedia of the Alkaline Earth Compounds is a compilation describing the physical and chemical properties of all of the alkaline earth compounds that have been elucidated to date in the scientific literature. These compounds are used in applications such as LEDs and electronic devices such as smart phones and tablet computers.

Preparation methods for each compound are presented to show which techniques have been successful. Structures and phase diagrams are presented where applicable to aid in understanding the complexities of the topics discussed. With concise descriptions

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presenting the chemical, physical and electrical properties of any given compound, this subject matter will serve as an introduction to the field. This compendium is vital for students and scientific researchers in all fields of scientific endeavors, including non-chemists. 2013 Honorable Mention in Chemistry & Physics from the Association of American Publishers' PROSE Awards Presents a systematic coverage of all known alkaline earth inorganic compounds and their properties Provides a clear, consistent presentation based on groups facilitating easy comparisons Includes the structure of all the compounds in high quality full-color graphics Summarizes all currently known properties of the transition metals compounds Lists the uses and applications of these compounds in electronics, energy, and catalysis

Access to Medical Knowledge Libraries, Digitization, and the Public Good

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