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This publication contains 189 individual country profiles, each comprising 30 indicators mostly related to the four main dimensions of commodity dependence, namely: merchandise and commodity export dependence - Commodity import dependence - key socioeconomic indicators - other structural indicators. As commodity dependence tends to negatively affect poverty alleviation and food security, a set of indicators is included to help monitor trends in these areas. For each individual country, 1995 is used as the historical reference year. Illustrates and describes 7,800 major and minor American coins from 1616 to the modern sandwich coin This book presents fundamental and applied research aimed at the development of smart cities across India. Based on the exploration of an extensive array of multidisciplinary literature, this book discusses critical factors of smart city initiatives: management and organization, technology, governance, policy, people and communities, economy, infrastructure, and natural environment. These factors are broadly covered under the integrative framework of the book to examine the vision and challenges of smart city initiatives. The book suggests directions and agendas for smart city research and outlines practical implications for government professionals, students, research scholars and policy makers. A lot of work is happening on smart cities as it is an upcoming area of research and development. At international level, and even in India, the concept of smart cities concept is a hot topic at universities,

research centers, ministries, transport departments, civic bodies, environment, energy and disaster organizations, town planners and policy makers. This book provides ideas and information to government officials, investors, experts and research students.

The American Jewish Year Book, now in its 118th year, is the annual record of the North American Jewish communities and provides insight into their major trends. The first two chapters of Part I include a special forum on "Contemporary American Jewry: Grounds for Optimism or Pessimism?" with assessments from more than 20 experts in the field. The third chapter examines antisemitism in Contemporary America. Chapters on "The Domestic Arena" and "The International Arena" analyze the year's events as they affect American Jewish communal and political affairs. Three chapters analyze the demography and geography of the US, Canada, and world Jewish populations. Part II provides lists of Jewish institutions, including federations, community centers, social service agencies, national organizations, synagogues, Hillels, day schools, camps, museums, and Israeli consulates. The final chapters present national and local Jewish periodicals and broadcast media; academic resources, including Jewish Studies programs, books, journals, articles, websites, and research libraries; and lists of major events in the past year, Jewish honorees, and obituaries. Today, as it has for over a century, the American Jewish Year Book remains the single most useful source of information and analysis on Jewish demography, social and political trends, culture, and religion. For anyone interested in

Jewish life, it is simply indispensable. David Harris, CEO, American Jewish Committee (AJC), Edward and Sandra Meyer Office of the CEO The American Jewish Year Book stands as an unparalleled resource for scholars, policy makers, Jewish community professionals and thought leaders. This authoritative and comprehensive compendium of facts and figures, trends and key issues, observations and essays, is the essential guide to contemporary American Jewish life in all its dynamic multi-dimensionality. Christine Hayes, President, Association for Jewish Studies (AJS) and Robert F. and Patricia R. Weis Professor of Religious Studies in Classical Judaica at Yale University

A companion document to the fifth edition of the Balance of Payments Manual, the Balance of Payments Compilation Guide shows how the conceptual framework described in the Manual may be implemented in practice. The primary purpose of the Guide is to provide practical guidance for using sources and methods to compile statistics on the balance of payments and the international investment position. the Guide is designed to assist balance of payments compilers and statisticians in understanding the relative strengths and weaknesses of various approaches. The material reflects the emergence of new data sources and adaptations in the application of statistical methodologies to changing circumstances. Discussed in the Guide are all of the tasks that a BOP compiler normally performs. Appendices contain a set of model BOP questionnaires and a set of model BOP publication tables. Relationships between the balance of payments statistics and relevant

aspects of national accounts are covered as well.

The cytoskeleton is comprised of a variety of specialized proteins, and is a dynamic structure that is involved in the majority of key cellular events. There is increasing interest in the role of the cytoskeleton in human disease. This volume brings together human disease states where cytoskeletal disruptions are driving disease. Our emerging understanding of the molecular and cellular events that drive cytoskeletal mediated diseases including cancer, heart disease, myopathies and skin disorders, are also helping shape targeted therapeutic approaches to treating these diseases.

Report provides the total population for each of the nation's 3,141 counties from 1990 back to the first census in which the county appeared.

Applied Mathematics: Body & Soul is a mathematics education reform project developed at Chalmers University of Technology and includes a series of volumes and software. The program is motivated by the computer revolution opening new possibilities of computational mathematical modeling in mathematics, science and engineering. It consists of a synthesis of Mathematical Analysis (Soul), Numerical Computation (Body) and Application.

Volumes I-III present a modern version of Calculus and Linear Algebra, including constructive/numerical techniques and applications intended for undergraduate programs in engineering and science. Further volumes present topics such as Dynamical Systems, Fluid Dynamics, Solid Mechanics and

Electro-Magnetics on an advanced undergraduate/graduate level. The authors are leading researchers in Computational Mathematics who have written various successful books. Nanobiotechnology for Sustainable Bioenergy and Biofuel Production provides insights into the most recent innovations, trends, concerns and challenges in the production of biofuels. This book highlights a number of key research topics and practical applications of modern nanomaterials and nanocomposite-driven enzyme biotechnology for biofuels production, including the advances in the nanoscaffolds design (nanomaterials support) for immobilizing bioenergy producing enzymes (nanobiocatalyst system), the recent trends in biomass processing (untreated/treated agriculture and food waste, grasses, algal, etc.) using advanced nanobiocatalysts for biofuels production and the scale-up study of bioenergy production using nanomaterials immobilized enzymes and biofuel harvesting using nanomaterials. At the outset of new nanobiotechnology applications in biofuel production, there is a need for a new resource in the bioenergy field. This book delivers an overview of the contributions of biofuel production and the most up-to-date advances in nanobiotechnology to a diverse audience ranging from post-graduate students to researchers in biochemical engineering, biotechnology, bioremediation and environmental

studies and pharmaceutical professionals. Key Features • Outlines the most recent nanobiotechnological advances in biofuels and bioenergy for biofuels productions • Covers biodiesel, bioethanol, biomethane, biohydrogen, biorefineries and biofuel harvesting using nanomaterials • Explains the scale-up nanobiotechnological study of biofuel production at the bioreactor level

This book examines in great detail the design and implementation of a rural development project for smallholder farmers in Paraguay. Over a period of seven years, from 2003 to 2010, the project applied the basic concepts of conservation agriculture, forestry and agroforestry benefiting 17 thousand farm families in the Eastern Province of the country. The practices promoted closely paralleled those being recommended for sustainable crop production intensification by FAO which seek to enhance agricultural productivity while protecting the natural environment and improving ecosystem services. The book gives a clear-eyed analysis of the lessons learned and the factors for success and failure and so is an invaluable resource for those contemplating similar projects in the future.

The Title 'Encyclopaedia of Dalits in India (Women) written/authored/edited by Sanjay Paswan, Paramanshi Jaideva', published in the year 2002. The ISBN 9788178350325 is assigned to the

Hardcover version of this title. This book has total of pp. 415 (Pages). The publisher of this title is Kalpaz Publications. This Book is in English. The subject of this book is Reference / Dictionary / Encyclopaedia / Scheduled Castes / OBC / Minorities / Sociology. Size of the book is.

Food PackagingAdvanced Materials, Technologies, and InnovationsCRC Press

Rapid prototyping is used to design and develop medical devices and instrumentation. This book details research in rapid prototyping of bio-materials for medical applications. It provides a wide variety of examples of medical applications using rapid prototyping, including tissue engineering, dental applications, and bone replacement. Coverage also discusses the emergence of computer aided design in the development of prosthetic devices.

Hoping to simplify matters for engineers overwhelmed by inductance calculations, the author brings together an invaluable collection of formulas and tables. For virtually every type of inductor, Dr. Grover provides a single simple formula, together with tables from which essential numerical factors may be interpolated. Starting with a survey of general principles, the text explains circuits with straight filaments; parallel elements of equal length; mutual inductance of unequal parallel filaments and filaments inclined at an angle to each other; and inductance of single-layer coils on rectangular

winding forms. Additional topics include the mutual inductance of coaxial circular filaments and of coaxial circular coils; self-inductance of circular coils of rectangular cross section; mutual inductance of solenoid and a coaxial circular filament and coaxial single-layer coils; single-layer coils on cylindrical winding forms; and special types of single-layer coil. 1946 ed.

This handbook focuses on Data Envelopment Analysis (DEA) applications in operations analytics which are fundamental tools and techniques for improving operation functions and attaining long-term competitiveness. In fact, the handbook demonstrates that DEA can be viewed as Data Envelopment Analytics. Chapters include a review of cross-efficiency evaluation; a case study on measuring the environmental performance of OECS countries; how to select a set of performance metrics in DEA with an application to American banks; a relational network model to take the operations of individual periods into account in measuring efficiencies; how the efficient frontier methods DEA and stochastic frontier analysis (SFA) can be used synergistically; and how to integrate DEA and multidimensional scaling. In other chapters, authors construct a dynamic three-stage network DEA model; a bootstrapping based methodology to evaluate returns to scale and convexity assumptions in DEA; hybridizing DEA and cooperative games; using DEA to represent the production technology and directional distance functions to measure bank performance; an input-specific

Luenberger energy and environmental productivity indicator; and the issue of reference set by differentiating between the uniquely found reference set and the unary and maximal types of the reference set. Finally, additional chapters evaluate and compare the technological advancement observed in different hybrid electric vehicles (HEV) market segments over the past 15 years; radial measurement of efficiency for the production process possessing multi-components under different production technologies; issues around the use of accounting information in DEA; how to use DEA environmental assessment to establish corporate sustainability; a summary of research efforts on DEA environmental assessment applied to energy in the last 30 years; and an overview of DEA and how it can be utilized alone and with other techniques to investigate corporate environmental sustainability questions.

This book covers all aspects of research into the welfare of dairy, veal and beef cattle, covering behavior, nutrition and feeding, housing and management, stockmanship, and stress physiology, as well as transport and slaughter. It also offers a detailed and critical analysis of the main indicators of animal welfare and covers the main threats to animal welfare in modern cattle production systems.

PEM Fuel Cell Diagnostic Tools presents various tools for diagnosing PEM fuel cells and stacks, including in situ and ex situ diagnostic tools, electrochemical techniques, and physical/chemical methods. The text outlines the principles, experimental implementation, data processing, and application of each technique,

along with its capabilities and weaknesses. The book covers many diagnostics employed in the characterization and determination of fuel cell performance. It discusses commonly used conventional tools, such as cyclic voltammetry, electrochemical impedance spectroscopy, scanning electron microscopy, and transmission electron microscopy. It also examines special tools developed specifically for PEM fuel cells, including transparent cells, cathode discharge, and current mapping, as well as recent advanced tools for diagnosis, such as magnetic resonance imaging and atomic force microscopy. For clarity, the book splits these diagnostic methodologies into two parts—in situ and ex situ. To better understand the tools, PEM fuel cell testing is also discussed. Each self-contained chapter provides cross-references to other chapters. Written by international scientists active in PEM fuel cell research, this volume incorporates state-of-the-art technical advances in PEM fuel cell diagnosis. The diagnostic tools presented help readers to understand the physical and chemical phenomena involved in PEM fuel cells. Though it incorporates much new material, this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained.

The book focuses on protein allostery in drug discovery. Allosteric regulation, "the second secret of life", fine-tunes virtually most biological processes and controls physiological activities. Allostery can both cause human diseases and contribute to development of new

therapeutics. Allosteric drugs exhibit unparalleled advantages compared to conventional orthosteric drugs, rendering the development of allosteric modulators as an appealing strategy to improve selectivity and pharmacodynamic properties in drug leads. The Series delineates the immense significance of protein allostery—as demonstrated by recent advances in the repertoires of the concept, its mechanistic mechanisms, and networks, characteristics of allosteric proteins, modulators, and sites, development of computational and experimental methods to predict allosteric sites, small-molecule allosteric modulators of protein kinases and G-protein coupled receptors, engineering allostery, and the underlying role of allostery in precise medicine. Comprehensive understanding of protein allostery is expected to guide the rational design of allosteric drugs for the treatment of human diseases. The book would be useful for scientists and students in the field of protein science and Pharmacology etc.

International Debt Statistics (IDS) is a longstanding annual publication of the World Bank featuring external debt statistics and analysis for the 123 low- and middle-income countries that report to the World Bank Debt Reporting System (DRS). The content coverage of IDS 2020 includes: 1) a user guide describing the IDS tables and content, definitions and rationale for country and income groupings, data notes, and description of the additional resources and comprehensive datasets available to users online, 2) a brief overview analyzing global trends in debt stocks and debt flows to low- and middleincome countries within the framework of

aggregate capital flows (debt and equity), 3) a feature story on lending by the World Bank in recognition of the institution's 75th anniversary, 4) tables and charts detailing debtor and creditor composition of debt stock and flows, terms volume and terms of new commitments, maturity structure of future debt service payments and debt burdens, measured in relation to GNI and export earnings for each country, and 5) one-page summaries per country, plus global, regional and income-group aggregates showing debt stocks and flows, relevant debt indicators and metadata for 5 years (2014-2018).

International Financial Statistics, February 1964

A comprehensive overview of the latest developments in world trade, covering the details of merchandise trade by product and trade in commercial services

This book provides an up-to-date overview of the architecture and biosynthesis of bacterial and archaeal cell walls, highlighting the evolution-based similarities in, but also the intriguing differences between the cell walls of Gram-negative bacteria, the Firmicutes and Actinobacteria, and the Archaea. The recent major advances in this field, which have brought to light many new structural and functional details, are presented and discussed. Over the past five years, a number of novel systems, e.g. for lipid, porin and lipopolysaccharide biosynthesis have been described. In addition, new structural achievements with periplasmic chaperones have been made, all of which have revealed amazing details on how

bacterial cell walls are synthesized. These findings provide an essential basis for future research, e.g. the development of new antibiotics. The book's content is the logical continuation of Volume 84 of SCBI (on Prokaryotic Cytoskeletons), and sets the stage for upcoming volumes on Protein Complexes. This book presents an overview of the most important current developments in the pre-analytical handling of tissue. It addresses in particular potential ways to improve the situation whereby methods employed in the pre-analytical phase – the period from surgical removal of tissue to the start of pathological processing – have remained essentially unchanged for decades with only modest standardization. It is examined how the pre-analytical period can be optimized, resulting not only in an increase in diagnostic quality but also in a reduction in processing time and costs. Among the key topics examined are the so-called cold ischemia time between tissue removal and fixation, the potential superiority of vacuum-based preservation over immediate formalin fixation, two-temperature fixation, molecular analysis methods, and the pre-analytics of specimens from particular tissues. Readers will find this book to be an important update that reveals the full importance of the pre-analytical phase for quality of pathological work-up. This guide is intended to provide general provisions and recommendations to assist national policy

makers and to enhance the harmonisation of technical standards among the States Parties to the Convention on the Elaboration of a European Pharmacopoeia

This open access book offers the first comprehensive account of the pan-genome concept and its manifold implications. The realization that the genetic repertoire of a biological species always encompasses more than the genome of each individual is one of the earliest examples of big data in biology that opened biology to the unbounded. The study of genetic variation observed within a species challenges existing views and has profound consequences for our understanding of the fundamental mechanisms underpinning bacterial biology and evolution. The underlying rationale extends well beyond the initial prokaryotic focus to all kingdoms of life and evolves into similar concepts for metagenomes, phenomes and epigenomes. The books respective chapters address a range of topics, from the serendipitous emergence of the pan-genome concept and its impacts on the fields of microbiology, vaccinology and antimicrobial resistance, to the study of microbial communities, bioinformatic applications and mathematical models that tie in with complex systems and economic theory. Given its scope, the book will appeal to a broad readership interested in population dynamics, evolutionary biology and genomics.

Written specifically to help lawyers and non-lawyers brush up on franchise law, this respected publication - now in its fourth edition - is charged with useful definitions, practical tips, and expert advice from experienced franchise law practitioners. This practical guide examines franchise law from a wide-range of experiences and viewpoints. Each chapter is written by two experienced practitioners to provide a well-rounded guide to the fundamentals of franchise law and key issues in the practice, including trademark law; structuring the franchise relationship; disclosure issues; registration; franchise relationship laws; antitrust law; counseling franchisees; and more.

The safety of fresh meat continues to be a major concern for consumers. As a result, there has been a wealth of research on identifying and controlling hazards at all stages in the supply chain. Improving the safety of fresh meat reviews this research and its implications for the meat industry. Part one discusses identifying and managing hazards on the farm. There are chapters on the prevalence and detection of pathogens, chemical and other contaminants. A number of chapters discuss ways of controlling such hazards in the farm environment. The second part of the book reviews the identification and control of hazards during and after slaughter. There are chapters both on contamination risks and how they can best be managed. The range

of decontamination techniques available to meat processors as well as such areas as packaging and storage are examined. With its distinguished editor and international team of contributors, *Improving the safety of fresh meat* is a standard reference for the meat industry. Learn how to identify and control hazards at all stages in the supply chain An authoritative reference on reducing microbial and other hazards in raw and fresh red meat Understand the necessity for effective intervention at each production process

The 2017 International Trade Statistics Yearbook, Volume II - Trade by Product contains detailed tables showing international trade for 258 individual commodities, for the 11 main Extended Balance of Payments Services categories, and eleven world trade tables or figures presenting statistics up to the year 2017. The information contained in the publication is based on data provided by approximately 175 countries (or areas) in the world. The Yearbook is aimed at both specialist trade data users and common audience at large. The presented data, charts and analyses will benefit policy makers, government agencies, non-government organizations, civil society organizations, journalists, academics, researchers, students, businesses and anyone who is interested in trade issues. The information and analyses are presented in a way which can be comprehended by non-expert users of

statistics.

Part I of each volume will feature 5-7 major review chapters, including 2-3 long chapters reviewing topics of major concern to the American Jewish community written by top experts on each topic, review chapters on "National Affairs" and "Jewish Communal Affairs" and articles on the Jewish population of the United States and the World Jewish Population. Future major review chapters will include such topics as Jewish Education in America, American Jewish Philanthropy, Israel/Diaspora Relations, American Jewish Demography, American Jewish History, LGBT Issues in American Jewry, American Jews and National Elections, Orthodox Judaism in the US, Conservative Judaism in the US, Reform Judaism in the US, Jewish Involvement in the Labor Movement, Perspectives in American Jewish Sociology, Recent Trends in American Judaism, Impact of Feminism on American Jewish Life, American Jewish Museums, Anti-Semitism in America, and Inter-Religious Dialogue in America. Part II-V of each volume will continue the tradition of listing Jewish Federations, national Jewish organizations, Jewish periodicals, and obituaries. But to this list are added lists of Jewish Community Centers, Jewish Camps, Jewish Museums, Holocaust Museums, and Jewish honorees (both those honored through awards by Jewish organizations and by receiving honors, such as

Presidential Medals of Freedom and Academy Awards, from the secular world). We expand the Year Book tradition of bringing academic research to the Jewish communal world by adding lists of academic journals, articles in academic journals on Jewish topics, Jewish websites, and books on American and Canadian Jews. Finally, we add a list of major events in the North American Jewish Community.

Food Packaging: Advanced Materials, Technologies, and Innovations is a one-stop reference for packaging materials researchers working across various industries. With chapters written by leading international researchers from industry, academia, government, and private research institutions, this book offers a broad view of important developments in food packaging. Presents an extensive survey of food packaging materials and modern technologies Demonstrates the potential of various materials for use in demanding applications Discusses the use of polymers, composites, nanotechnology, hybrid materials, coatings, wood-based, and other materials in packaging Describes biodegradable packaging, antimicrobial studies, and environmental issues related to packaging materials Offers current status, trends, opportunities, and future directions Aimed at advanced students, research scholars, and professionals in food packaging development, this application-oriented book will help expand the

reader's knowledge of advanced materials and their use of innovation in food packaging.

Cancer is one of the leading killers in the world and the incidence is increasing, but most cancer patients and cancer survivors suffer much from the disease and its conventional treatments' side effects. In the past, clinical data showed that some complementary and alternative medicine (CAM) possessed anticancer abilities, but some clinicians and scientists have queried about the scientific validity of CAM due to the lack of scientific evidence. There is great demand in the knowledge gap to explore the scientific and evidence-based knowledge of CAM in the anticancer field. With this aim, a book series is needed to structurally deliver the knowledge to readers. Recently there have been encouraging results from both laboratory experiments and clinical trials demonstrating the anticancer effects of herbal medicine. There is considerable interest among oncologists and cancer researchers to find anticancer agents in herbal medicine. This volume is a specialised book presenting the up-to-date scientific evidence for anticancer herbal medicine. This unique book provides an overview of the anticancer herbal medicines and remedies, as well as a detailed evidence-based evaluation of 18 common anticancer herbal medicines covering their biological and pharmacological properties, efficacies, herb-drug interactions, adverse effects, pre-clinical

studies, and clinical applications. Gathering international opinion leaders' views, this volume will contribute great to the cancer, academic, and clinical community by providing evidence-based information on the anticancer efficacy of herbal medicine. Readership Oncologists, cancer researchers, pharmacologists, pharmaceutical specialists, Chinese medicine practitioners, medical educators, postgraduates and advanced undergraduates in biomedical disciplines, cancer caregivers, cancer patients.

In this unique supplement, we have compiled several state-of-the-art topics that are based on lectures delivered by eminent mycology experts during the 37th ICHS meeting. We hope that the esteemed audience of the Journal of Fungi will enjoy and appreciate the ever-evolving and complex field of fungal infections in vulnerable hosts.

Food Protection and Security: Preventing and Mitigating Intentional and Unintentional Contamination of Food and Beverage presents the latest information on our need to protect our food supply from accidental contamination, economically motivated adulteration, and contamination with intent to harm (bioterrorism or agro-terrorism). This book covers all three branches of food protection, providing a comprehensive overview of the methods and strategy involved. Part one covers the need for food protection, looking at potential hazards in the

production, processing, and supply chain. Part two looks at detection methods for contaminants in food, with the final section addressing food contamination incidents and prevention and response strategies. Explores the need for food protection, from natural disasters to contamination in food processing facilities Examines techniques used to detect contaminants in food, such as microbiological testing and fingerprinting Provides key ways to address food contamination issues

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