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Logistics 4.0 Turan Paksoy 2020-12-18 Industrial revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conducted significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to it is ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world.

Higher Mathematics for Physics and Engineering Hiroyuki Shima 2010-04-12 Due to the rapid expansion of the frontiers of physics and engineering, the demand for higher-level mathematics is increasing yearly. This book is designed to provide accessible knowledge of higher-level mathematics demanded in contemporary physics and engineering. Rigorous mathematical structures of important subjects in these fields are fully

covered, which will be helpful for readers to become acquainted with certain abstract mathematical concepts. The selected topics are: - Real analysis, Complex analysis, Functional analysis, Lebesgue integration theory, Fourier analysis, Laplace analysis, Wavelet analysis, Differential equations, and Tensor analysis. This book is essentially self-contained, and assumes only standard undergraduate preparation such as elementary calculus and linear algebra. It is thus well suited for graduate students in physics and engineering who are interested in theoretical backgrounds of their own fields. Further, it will also be useful for mathematics students who want to understand how certain abstract concepts in mathematics are applied in a practical situation. The readers will not only acquire basic knowledge toward higher-level mathematics, but also imbibe mathematical skills necessary for contemporary studies of their own fields.

Chemical Engineering in the Pharmaceutical Industry Mary T. am Ende 2019-04-08 A guide to the important chemical engineering concepts for the development of new drugs, revised second edition The revised and updated second edition of *Chemical Engineering in the Pharmaceutical Industry* offers a guide to the experimental and computational methods related to drug product design and development. The second edition has been greatly expanded and covers a range of topics related to formulation design and process development of drug products. The authors review basic analytics for quantitation of drug product quality attributes, such as potency, purity, content uniformity, and dissolution, that are addressed with consideration of the applied statistics, process analytical technology, and process control. The 2nd Edition is divided into two separate books: 1) *Active Pharmaceutical Ingredients (API's)* and 2) *Drug Product Design, Development and Modeling*. The contributors explore technology transfer and scale-up of batch processes that are exemplified experimentally and computationally. Written for engineers working in the field, the book examines in-silico process modeling tools that streamline experimental screening approaches. In addition, the authors discuss the emerging field of continuous drug product manufacturing. This revised second edition: Contains 21 new or revised chapters, including chapters on quality by design, computational approaches for drug product modeling, process design with PAT and process control, engineering challenges and solutions Covers chemistry and engineering activities related to dosage form design, and process development, and scale-up Offers analytical methods and applied statistics that highlight drug product quality attributes as design features Presents updated and new example calculations and associated solutions Includes contributions from leading experts in the field Written for pharmaceutical engineers, chemical engineers, undergraduate and graduation students, and professionals in the field of pharmaceutical sciences and manufacturing, *Chemical Engineering in the Pharmaceutical Industry, Second Edition* contains information designed to be of use from the engineer's perspective and spans information from solid to semi-solid to lyophilized drug products.

Intelligent Computing and Innovation on Data Science Sheng-Lung Peng 2020-05-14 This book covers both basic and high-level concepts relating to the intelligent computing paradigm and data sciences in the context of distributed computing, big data, data sciences, high-performance computing and Internet of Things. It is becoming increasingly important to develop adaptive, intelligent computing-centric, energy-aware, secure and privacy-aware systems in high-performance computing and IoT applications. In this context, the book serves as a useful guide for industry practitioners, and also offers beginners a comprehensive introduction to basic and advanced areas of intelligent computing. Further, it provides a platform for researchers, engineers, academics

and industrial professionals around the globe to showcase their recent research concerning recent trends. Presenting novel ideas and stimulating interesting discussions, the book appeals to researchers and practitioners working in the field of information technology and computer science.

Basic Equations of the Mass Transport Through a Membrane Layer Endre Nagy 2011-12-12 With a detailed analysis of the mass transport through membrane layers and its effect on different separation processes, this book provides a comprehensive look at the theoretical and practical aspects of membrane transport properties and functions. Basic equations for every membrane are provided to predict the mass transfer rate, the concentration distribution, the convective velocity, the separation efficiency, and the effect of chemical or biochemical reaction taking into account the heterogeneity of the membrane layer to help better understand the mechanisms of the separation processes. The reader will be able to describe membrane separation processes and the membrane reactors as well as choose the most suitable membrane structure for separation and for membrane reactor. Containing detailed discussion of the latest results in transport processes and separation processes, this book is essential for chemistry students and practitioners of chemical engineering and process engineering. Detailed survey of the theoretical and practical aspects of every membrane process with specific equations Practical examples discussed in detail with clear steps Will assist in planning and preparation of more efficient membrane structure separation

A review of multi-criteria decision-making applications to solve energy management problems: Two decades from 1995 to 2015 Abbas Mardania Energy management problems associated with rapid institutional, political, technical, ecological, social and economic development have been of critical concern to both national and local governments worldwide for many decades; thus, addressing such issues is a global priority.

Industry 4.0 Jesús Hamilton Ortiz 2020-03-25 This book shows a vision of the present and future of Industry 4.0 and identifies and examines the most pressing research issue in Industry 4.0. Containing the contributions of leading researchers and academics, this book includes recent publications in key areas of interest, for example: a review on the Industry 4.0: What is the Industry 4.0, the pillars of Industry 4.0, current and future trends, technologies, taxonomy, and some case studies (A.U.T.O 4.0, stabilization of digitized process). This book also provides an essential tool in the process of migration to Industry 4.0. The book is suitable as a text for graduate students and professionals in the industrial sector and general engineering areas. The book is organized into two sections: 1. Reviews 2. Case Studies Industry 4.0 is likely to play an important role in the future society. This book is a good reference on Industry 4.0 and includes some case studies. Each chapter is written by expert researchers in the sector, and the topics are broad; from the concept or definition of Industry 4.0 to a future society 5.0.

Proceedings of International Conference on Intelligent Manufacturing and Automation Hari Vasudevan 2020-06-30 This book gathers selected papers presented at the Second International Conference on Intelligent Manufacturing and Automation (ICIMA 2020), which was jointly organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering (DJSCE), Mumbai, and by the Indian Society of Manufacturing Engineers (ISME). Covering a range of topics in intelligent

manufacturing, automation, advanced materials and design, it focuses on the latest advances in e.g. CAD/CAM/CAE/CIM/FMS in manufacturing, artificial intelligence in manufacturing, IoT in manufacturing, product design & development, DFM/DFA/FMEA, MEMS & nanotechnology, rapid prototyping, computational techniques, nano- & micro-machining, sustainable manufacturing, industrial engineering, manufacturing process management, modelling & optimization techniques, CRM, MRP & ERP, green, lean & agile manufacturing, logistics & supply chain management, quality assurance & environmental protection, advanced material processing & characterization of composite & smart materials. The book is intended as a reference guide for future researchers, and as a valuable resource for students in graduate and doctoral programmes.

The Constitution of India B. Ambedkar 2019-06-06 The Constitution of India is the supreme law of land. The document lays down extensively the framework demarcating fundamental political code, structure, procedures, powers, and duties of government institutions and sets out fundamental rights, directive principles, and the duties of citizens. It is the longest written constitution of any country on earth. B. R. Ambedkar, chairman of the drafting committee, is widely considered to be its chief architect. Constitution is a living document, an instrument which makes the government system work. Its flexibility lies in its amendments. In this edition, the text of the Constitution of India has been brought up-to-date by incorporating therein all amendments made by Parliament up to and including the Constitution (One Hundredth Amendment) Act, 2015 which contains details of acquired and transferred territories between the Governments of India and Bangladesh and the same has been included in Annexure. Good Readable Print !

Handbook of Signal Processing Systems Shuvra S. Bhattacharyya 2013-06-20 Handbook of Signal Processing Systems is organized in three parts. The first part motivates representative applications that drive and apply state-of-the-art methods for design and implementation of signal processing systems; the second part discusses architectures for implementing these applications; the third part focuses on compilers and simulation tools, describes models of computation and their associated design tools and methodologies. This handbook is an essential tool for professionals in many fields and researchers of all levels.

Advances in Computing and Intelligent Systems Harish Sharma 2020-01-03 This book gathers selected papers presented at the International Conference on Advancements in Computing and Management (ICACM 2019). Discussing current research in the field of artificial intelligence and machine learning, cloud computing, recent trends in security, natural language processing and machine translation, parallel and distributed algorithms, as well as pattern recognition and analysis, it is a valuable resource for academics, practitioners in industry and decision-makers.

Proceedings of the 8th International Conference on Sciences of Electronics, Technologies of Information and Telecommunications (SETIT18), Vol. 1 Med Salim Bouhlef 2020 This two-volume book presents an unusually diverse selection of research papers, covering all major topics in the fields of information and communication technologies and related sciences. It provides a wide-angle snapshot of current themes in information and power engineering, pursuing a cross-disciplinary approach to do so. The book gathers revised contributions that

were presented at the 2018 International Conference: Sciences of Electronics, Technologies of Information and Telecommunication (SETIT'18), held on 20-22 December 2018 in Hammamet, Tunisia. This eighth installment of the event attracted a wealth of submissions, and the papers presented here were selected by a committee of experts and underwent additional, painstaking revision. Topics covered include: · Information Processing · Human-Machine Interaction · Computer Science · Telecommunications and Networks · Signal Processing · Electronics · Image and Video This broad-scoped approach is becoming increasingly popular in scientific publishing. Its aim is to encourage scholars and professionals to overcome disciplinary barriers, as demanded by current trends in the industry and in the consumer market, which are rapidly leading toward a convergence of data-driven applications, computation, telecommunication, and energy awareness. Given its coverage, the book will benefit graduate students, researchers and practitioners who need to keep up with the latest technological advances.

Multimedia Content Analysis and Mining Nicu Sebe 2007-07-10 Prominent international experts came together to present and debate the latest findings in the field at the 2007 International Workshop on Multimedia Content Analysis and Mining. This volume includes forty-six papers from the workshop as well as thirteen invited papers. The papers cover a wide range of cutting-edge issues, including all aspects of multimedia in the fields of entertainment, commerce, science, medicine, and public safety.

Multi-criteria Decision Making Methods Evangelos Triantaphyllou 2013-03-09 Multi-Criteria Decision Making (MCDM) has been one of the fastest growing problem areas in many disciplines. The central problem is how to evaluate a set of alternatives in terms of a number of criteria. Although this problem is very relevant in practice, there are few methods available and their quality is hard to determine. Thus, the question 'Which is the best method for a given problem?' has become one of the most important and challenging ones. This is exactly what this book has as its focus and why it is important. The author extensively compares, both theoretically and empirically, real-life MCDM issues and makes the reader aware of quite a number of surprising 'abnormalities' with some of these methods. What makes this book so valuable and different is that even though the analyses are rigorous, the results can be understood even by the non-specialist. Audience: Researchers, practitioners, and students; it can be used as a textbook for senior undergraduate or graduate courses in business and engineering.

Bayesian Theory and Applications Paul Damien 2013-01-24 This volume guides the reader along a statistical journey that begins with the basic structure of Bayesian theory, and then provides details on most of the past and present advances in this field.

Applied Chemistry and Chemical Engineering, Volume 1 A. K. Haghi 2017-12-22 This new book brings together innovative research, new concepts, and novel developments in the application of informatics tools for applied chemistry and computer science. It presents a modern approach to modeling and calculation and also looks at experimental design in applied chemistry and chemical engineering. The volume discusses the developments of advanced chemical products and respective tools to characterize and predict the chemical material properties and behavior. Providing numerous comparisons of different methods with one another and

with different experiments, not only does this book summarize the classical theories, but it also exhibits their engineering applications in response to the current key issues. Recent trends in several areas of chemistry and chemical engineering science, which have important application to practice, are discussed. *Applied Chemistry and Chemical Engineering: Volume 1: Mathematical and Analytical Techniques* provides valuable information for chemical engineers and researchers as well as for graduate students. It demonstrates the progress and promise for developing chemical materials that seem capable of moving this field from laboratory-scale prototypes to actual industrial applications. Volume 2 will focus principles and methodologies in applied chemistry and chemical engineering.

Divya Yashpal 2009-02-10 'His ideas and his contribution to Indian literature were . . . revolutionary' —The Hindu Divya leads a blissful life within the secure walls of the palace even as the world outside rages with caste politics and religious strife, until one night of pleasure changes her entire world. She gets pregnant only to be spurned by her lover. To preserve her high born family's name she leaves her sheltered existence and trudges through life on her own, first as a slave and then as a court dancer. Adversity finally opens her eyes to the truth—a woman of a high family is not free. Only a prostitute is free. Divya decides that, by enslaving her body, she will preserve the freedom of her mind. Set in the first century BC against a background of the conflict for supremacy between Hindu and Buddhist ideologies, Divya is a poignant tale that combines vivid imagination with rich historical details. 'Reminiscent of George Orwell . . . Here too is the biting satire of society as seen through the savage eye of an uncompromising non-conformist'—Dawn

Optical Coherence Tomography G. Coscas 2014-02-27 Because of its many advantages optical coherence tomography (OCT) has revolutionized the way in which retinal diseases are screened and managed and how treatments are monitored. In this volume the latest developments and findings are presented by experts in their respective fields. After a short introduction covering the available equipment and the basic techniques, the imaging features of various pathological findings in retinal diseases are presented. The topics cover the outer layers including new modalities for choroid imaging, out-layer diseases such as the various types of macular degeneration, retinal diseases such as diabetic retinopathy and vascular occlusion, and retina and vitreous interface pathologies. The final chapters are dedicated to the practicality of using OCT for the pre- and postsurgical evaluation of the posterior segment and for the differential diagnosis of vitreoretinal diseases as well as in the management of patients with retinal and neuro-ophthalmological diseases. Making the essentials of the recently held ESASO course on OCT available in one volume, this publication is a must-read for experienced as well as trainee ophthalmologists who need to use OCT in their daily practice.

Real-Time PCR M Tevfik Dorak 2007-01-24 With a variety of detection chemistries, an increasing number of platforms, multiple choices for analytical methods and the jargon emerging along with these developments, real-time PCR is facing the risk of becoming an intimidating method, especially for beginners. Real-time PCR provides the basics, explains how they are exploited to run a real-time PCR assay, how the assays are run and where these assays are informative in real life. It addresses the most practical aspects of the techniques with the emphasis on 'how to do it in the laboratory'. Keeping with the spirit of the Advanced Methods Series, most chapters provide an experimental protocol as an example of a specific assay.

Satellite Communications Systems Engineering Louis J. Ippolito, Jr. 2017-02-28 The first edition of Satellite Communications Systems Engineering (Wiley 2008) was written for those concerned with the design and performance of satellite communications systems employed in fixed point to point, broadcasting, mobile, radio navigation, data relay, computer communications, and related satellite based applications. This welcome Second Edition continues the basic premise and enhances the publication with the latest updated information and new technologies developed since the publication of the first edition. The book is based on graduate level satellite communications course material and has served as the primary text for electrical engineering Masters and Doctoral level courses in satellite communications and related areas. Introductory to advanced engineering level students in electrical, communications and wireless network courses, and electrical engineers, communications engineers, systems engineers, and wireless network engineers looking for a refresher will find this essential text invaluable.

Soft Computing for Problem Solving Kedar Nath Das 2019-11-27 This two-volume book presents the outcomes of the 8th International Conference on Soft Computing for Problem Solving, SocProS 2018. This conference was a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), and Vellore Institute of Technology (India), and brought together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions. The book highlights the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers on algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It offers a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems that are difficult to solve using traditional methods.

Mechanical Engineering(Objective Type) D. S. Kumar 2009-01-01

Government Reports Announcements & Index 1986

Engineering Mathematics II Sergei Silvestrov 2017-02-10 This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models, structures, concepts, problems and computational methods and algorithms most relevant for applications in modern technologies and engineering. It addresses mathematical methods of algebra, applied matrix analysis, operator analysis, probability theory and stochastic processes, geometry and computational methods in network analysis, data classification, ranking and optimisation. The individual chapters cover both theory and applications, and include a wealth of figures, schemes, algorithms, tables and results of data analysis and simulation. Presenting new methods and results, reviews of cutting-edge research, and open problems for future research, they equip readers to develop new mathematical methods and concepts of their own, and to further compare and analyse the methods and results discussed. The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics organised by the Research Environment in Mathematics and

Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015: the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology; the International Workshop on Engineering Mathematics, Algebra, Analysis and Electromagnetics; and the 1st Swedish-Estonian International Workshop on Engineering Mathematics, Algebra, Analysis and Applications. It serves as a source of inspiration for a broad spectrum of researchers and research students in applied mathematics, as well as in the areas of applications of mathematics considered in the book.

Documentation Bulletin of the National Research Centre 1958

An Introduction to Agent-Based Modeling Uri Wilensky 2015-04-03 A comprehensive and hands-on introduction to the core concepts, methods, and applications of agent-based modeling, including detailed NetLogo examples. The advent of widespread fast computing has enabled us to work on more complex problems and to build and analyze more complex models. This book provides an introduction to one of the primary methodologies for research in this new field of knowledge. Agent-based modeling (ABM) offers a new way of doing science: by conducting computer-based experiments. ABM is applicable to complex systems embedded in natural, social, and engineered contexts, across domains that range from engineering to ecology. *An Introduction to Agent-Based Modeling* offers a comprehensive description of the core concepts, methods, and applications of ABM. Its hands-on approach—with hundreds of examples and exercises using NetLogo—enables readers to begin constructing models immediately, regardless of experience or discipline. The book first describes the nature and rationale of agent-based modeling, then presents the methodology for designing and building ABMs, and finally discusses how to utilize ABMs to answer complex questions. Features in each chapter include step-by-step guides to developing models in the main text; text boxes with additional information and concepts; end-of-chapter explorations; and references and lists of relevant reading. There is also an accompanying website with all the models and code.

Extended Abstracts EuroComb 2021 Jaroslav Nešetřil 2021-08-24 This book collects the extended abstracts of the accepted contributions to EuroComb21. A similar book is published at every edition of EuroComb (every two years since 2001) collecting the most recent advances in combinatorics, graph theory, and related areas. It has a wide audience in the areas, and the papers are used and referenced broadly.

Advances in Industrial and Production Engineering Rakesh Kumar Phanden 2021-03-21 This book comprises the select proceedings of the 2nd International Conference on Future Learning Aspects of Mechanical Engineering (FLAME) 2020. In particular, this volume discusses different topics of industrial and production engineering such as sustainable manufacturing processes, logistics, Industry 4.0 practices, circular economy, lean six sigma, agile manufacturing, additive manufacturing, IoT and Big Data in manufacturing, 3D printing, simulation, manufacturing management and automation, surface roughness, multi-objective optimization and modelling for production processes, developments in casting, welding, machining, and machine tools. The contents of this book will be useful for researchers as well as industry professionals.

Basic Engineering Mathematics John Bird 2017-07-14 Now in its seventh edition, *Basic Engineering*

Mathematics is an established textbook that has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for introductory level engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.

Re-imagining Diffusion and Adoption of Information Technology and Systems: A Continuing Conversation
Sujeet K. Sharma 2020-12-16 This two-volume set of IFIP AICT 617 and 618 constitutes the refereed proceedings of the IFIP WG 8.6 International Working Conference "Re-imagining Diffusion and Adoption of Information Technology and Systems: A Continuing Conversation" on Transfer and Diffusion of IT, TDIT 2020, held in Tiruchirappalli, India, in December 2020. The 86 revised full papers and 36 short papers presented were carefully reviewed and selected from 224 submissions. The papers focus on the re-imagination of diffusion and adoption of emerging technologies. They are organized in the following parts: Part I: artificial intelligence and autonomous systems; big data and analytics; blockchain; diffusion and adoption technology; emerging technologies in e-Governance; emerging technologies in consumer decision making and choice; fin-tech applications; healthcare information technology; and Internet of Things Part II: diffusion of information technology and disaster management; adoption of mobile and platform-based applications; smart cities and digital government; social media; and diffusion of information technology and systems

Pareto-Nash-Stackelberg Game and Control Theory Valeriu Ungureanu 2018-03-09 This book presents a comprehensive new, multi-objective and integrative view on traditional game and control theories. Consisting of 15 chapters, it is divided into three parts covering noncooperative games; mixtures of simultaneous and sequential multi-objective games; and multi-agent control of Pareto-Nash-Stackelberg-type games respectively. Can multicriteria optimization, game theory and optimal control be integrated into a unique theory? Are there mathematical models and solution concepts that could constitute the basis of a new paradigm? Is there a common approach and method to solve emerging problems? The book addresses these and other related questions and problems to create the foundation for the Pareto-Nash-Stackelberg Game and Control Theory. It considers a series of simultaneous/Nash and sequential/Stackelberg games, single-criterion and multicriteria/Pareto games, combining Nash and Stackelberg game concepts and Pareto optimization, as well as a range of notions related to system control. In addition, it considers the problems of finding and representing the entire set of solutions. Intended for researches, professors, specialists, and students in the areas of game theory, operational research, applied mathematics, economics, computer science and engineering, it also serves as a textbook for various courses in these fields.

Internet and Network Economics Christos Papadimitriou 2008-12-11 This book constitutes the refereed proceedings of the 4th International Workshop on Internet and Network Economics, WINE 2008, held in Shanghai, China, in December 2008. The 68 revised full papers presented together with 10 invited talks were carefully reviewed and selected from 126 submissions. The papers are organized in topical sections on market equilibrium, congestion games, information markets, nash equilibrium, network games, solution concepts,

algorithms and optimization, mechanism design, equilibrium, online advertisement, sponsored search auctions, and voting problems.

Introduction to Sociology Frank van Tubergen 2020-02-25 Comprehensive and engaging, this textbook introduces students not only to foundational sociological work, but also to insights from contemporary sociological theory and research. This combined approach ensures that students become familiar with the core of sociology: key concepts, theories, perspectives, methods, and findings. Students will acquire the ability to think like a sociologist, investigate and understand complex social phenomena. This text presents a complete sociological toolkit, guiding students in the art of asking good sociological questions, devising a sophisticated theory and developing methodologies to observe social phenomena. The chapters of this book build cumulatively to equip students with the tools to quickly understand any new sociological topic or contemporary social problem. The textbook also applies the sociological toolkit to selected key sociological issues, showing how specific sociological topics can be easily investigated and understood using this approach. Taking a global and comparative perspective, the book covers a rich diversity of sociological topics and social problems, such as crime, immigration, race and ethnicity, media, education, family, organizations, gender, poverty, modernization and religion. The book presents a range of helpful pedagogical features throughout, such as: Chapter overview and learning goals summaries at the start of every chapter; Thinking like a sociologist boxes, encouraging students to reflect critically on learning points; Principle boxes, summarizing key sociological principles; Theory schema boxes, presenting sociological theories in a clear, understandable manner; Stylized facts highlighting key empirical findings and patterns; Key concepts and summary sections at the end of every chapter; and Companion website providing additional material for every chapter for both instructors and students, including PowerPoint lecture notes, discussion questions and answers, multiple-choice questions, further reading and a full glossary of terms. This clear and accessible text is essential reading for students taking introductory courses in sociology. It will also be useful for undergraduate and graduate courses in other social science disciplines, such as psychology, economics, human geography, demography, communication studies, education sciences, political science and criminology.

Black Identities Mary C. WATERS 2009-06-30 The story of West Indian immigrants to the United States is generally considered to be a great success. Mary Waters, however, tells a very different story. She finds that the values that gain first-generation immigrants initial success--a willingness to work hard, a lack of attention to racism, a desire for education, an incentive to save--are undermined by the realities of life and race relations in the United States. Contrary to long-held beliefs, Waters finds, those who resist Americanization are most likely to succeed economically, especially in the second generation.

Corporate Social Responsibility and Human Resource Management Mine Karataş-Özkan 2014-08-29 Including both theoretical and empirical chapters, the contributors explore how global organisations and organisational networks can collaborate with stakeholders within their community to leverage their HRM strategies.

Oxford Textbook of Vasculitis Gene V. Ball 2014 A comprehensive review of inflammatory syndromes and diseases that affect the blood vessels, this volume draws upon authors from all over the world to present

informed discussions on all types of vasculitis and related conditions.

Frontiers of Materials Research National Academies of Sciences, Engineering, and Medicine 2019-09-12

Modern materials science builds on knowledge from physics, chemistry, biology, mathematics, computer and data science, and engineering sciences to enable us to understand, control, and expand the material world. Although it is anchored in inquiry-based fundamental science, materials research is strongly focused on discovering and producing reliable and economically viable materials, from super alloys to polymer composites, that are used in a vast array of products essential to today's societies and economies. **Frontiers of Materials Research: A Decadal Survey** is aimed at documenting the status and promising future directions of materials research in the United States in the context of similar efforts worldwide. This third decadal survey in materials research reviews the progress and achievements in materials research and changes in the materials research landscape over the last decade; research opportunities for investment for the period 2020-2030; impacts that materials research has had and is expected to have on emerging technologies, national needs, and science; and challenges the enterprise may face over the next decade.

Interrupting Heteronormativity Mary Queen 2005 Aims to make visible the everyday, seemingly inconsequential ways in which classrooms become sites for the reinforcement of heteronormative ideologies and practices that inhibit student learning and student-teacher interactions; and to aid educators in identifying, and working with students to avoid marginalization in the classroom.

International Books in Print 1990

General Knowledge