

On The Safe Side Cscb

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Internal Colonialism and International Relations - Ana Carolina Teixeira Delgado 2021-06-25

This book investigates decolonization as a local process and its connections to international relations, introducing "internal colonialism" as a crucial analytical category for internationalists. Using Bolivia as a case study, the author argues that the reshaping of colonialism and its resistance domestically is also reflected and reproduced abroad by political actors, be they the governments or indigenous movements. By problematizing postcolonial debate concerning the constitution/reproduction of colonial logics in International Relations, the book proposes a return to the local to show how power relations are exercised concretely by the protagonists of political process. Such dynamics reveal the interrelationship between the local and the international, especially, in which the latter represents a necessary dimension to both reinforce colonialism and oppose colonial logics. Of interest to scholars and students of IR, Latin American and Andean Studies, this book will also appeal to those working in the fields of area studies, anthropology, indigenous politics, comparative politics, decolonization and political ecology.

Live Cell Assays - Christophe Furger 2016-07-25

Cell assays include all methods of measurements on living cells. Confined for a long time to research laboratories, these emerging methods have, in recent years, found industrial applications that are increasingly varied and, from now on, regulatory. Based on the recent explosion of knowledge in cell biology, the measurement of living cells represents a new class of industry-oriented research tests, the applications of which continue to multiply (pharmaceuticals, cosmetics, environment, etc.). Cellular tests are now being positioned as new tools at the interface between chemical methods, which are often obsolete and not very informative, and methods using animal models, which are expensive, do not fit with human data and are widely discussed from an ethical perspective. Finally, the development of cell assays is currently being strengthened by their being put into regulatory application, particularly in Europe through the REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) and cosmetic directives.

A Handbook on the WTO Customs Valuation Agreement - Sheri Rosenow 2010-12-02

This guide to the WTO Customs Valuation Agreement is based on the authors' experiences of teaching its finer points to customs officials and policy-makers around the world. Covering the methods of valuation and the provisions on enforcement, implementation and dispute settlement, the authors give practical examples, explain interpretative decisions of national and international customs bodies, and analyse the history of its negotiation. Written as a learning tool, it helps both new and experienced policy-makers, customs officials, importers and exporters to gain a deeper understanding of the Agreement's function and aims.

Probabilistic Mechanics and Structural and Geotechnical Reliability - Yu-Kweng Lin 1992

Cosmos & Culture - Steven J. Dick 2009

From GPO Bookstore's Website: Authors with diverse backgrounds in science, history, anthropology, and more, consider culture in the context of the cosmos. How does our knowledge of cosmic evolution affect terrestrial culture? Conversely, how does our knowledge of cultural evolution affect our thinking about possible cultures in the cosmos? Are life, mind, and culture of fundamental significance to the grand story of the cosmos that has generated its own self-understanding through science, rational reasoning, and mathematics? Book includes bibliographical references and an index.

UMTA-MA - 1980

The EcoEdge - Esther Charlesworth 2013-09-13

Presenting diverse case studies of contemporary sustainable urban practice from Europe, Africa, India, South America, the USA and Australia, this book offers the reader a fantastic wealth of practical material from a range of internationally renowned authors. Each practical case study has addressed issues and then offered solutions to implement sustainable cities across a range of urban scales and cultures. Urgent design challenges explored include population density, recreating infrastructure that supports carbon neutral or low carbon (emission) intensive urban activities, and retrofitting for sustainability. Highly illustrated, thematically focused and with superb global coverage, this book presents a multi-voiced and yet highly cohesive reference for anyone interested in green issues in urban design and architecture.

Clean Ironmaking and Steelmaking Processes - Pasquale Cavaliere 2019-07-18

This book describes the available technologies that can be employed to reduce energy consumption and greenhouse emissions in the steel- and ironmaking industries. Ironmaking and steelmaking are some of the largest emitters of carbon dioxide (over 2Gt per year) and have some of the highest energy demand (25 EJ per year) among all industries; to help mitigate this problem, the book examines how changes can be made in energy efficiency, including energy consumption optimization, online monitoring, and energy audits. Due to negligible regulations and unparalleled growth in these industries during the past 15-20 years, knowledge of best practices and innovative technologies for greenhouse gas remediation is paramount, and something this book addresses. Presents the most recent technological solutions in productivity analyses and dangerous emissions control and reduction in steelmaking plants; Examines the energy saving and emissions abatement efficiency for potential solutions to emission control and reduction in steelmaking plants; Discusses the application of the results of research conducted over the last ten years at universities, research centers, and industrial institutions.

The Euromissile Crisis and the End of the Cold War - Leopoldo Nuti 2015-02-18

"In the late 1970s, new generations of nuclear delivery systems were proposed for deployment across Eastern and Western Europe. The ensuing controversy grew to become a key phase in the late Cold War. This book explores the origins, unfolding, and consequences of that crisis. Contributors from international relations, political science, sociology, and history draw on extensive research in a number of countries, often employing declassified documents from the West and from the newly opened state and party archives of many Soviet bloc countries. They cover especially Soviet-Warsaw Pact relations, U.S.-NATO relations, and the role of public opinion worldwide in relation to the crisis"--

Vivir Bien as an Alternative to Neoliberal Globalization - Eija Ranta 2018-03-09

Presenting an ethnographic account of the emergence and application of critical political alternatives in the Global South, this book analyses the opportunities and challenges of decolonizing and transforming a modern, hierarchical and globally-immersed nation-state on the basis of indigenous terminologies. Alternative development paradigms that represent values including justice, pluralism, democracy and a sustainable relationship to nature tend to emerge in response to - and often opposed to - the neoliberal globalization. Through a focus on the empirical case of the notion of Vivir Bien ('Living Well') as a critical cultural and ecological paradigm, Ranta demonstrates how indigeneity - indigenous peoples' discourses, cultural ideas and worldviews - has become such a denominator in the construction of local political and policy alternatives. More widely, the author seeks to map conditions for, and the challenges of, radical political projects that aim to counteract neoliberal globalization and Western hegemony in defining

development. This book will appeal to critical academic scholars, development practitioners and social activists aiming to come to grips with the complexity of processes of progressive social change in our contemporary global world.

Bond Graph Modelling of Engineering Systems - Wolfgang Borutzky 2011-06-01

The author presents current work in bond graph methodology by providing a compilation of contributions from experts across the world that covers theoretical topics, applications in various areas as well as software for bond graph modeling. It addresses readers in academia and in industry concerned with the analysis of multidisciplinary engineering systems or control system design who are interested to see how latest developments in bond graph methodology with regard to theory and applications can serve their needs in their engineering fields. This presentation of advanced work in bond graph modeling presents the leading edge of research in this field. It is hoped that it stimulates new ideas with regard to further progress in theory and in applications.

Cyanobacteria Biotechnology - Paul Hudson 2021-04-20

Unites a biological and a biotechnological perspective on cyanobacteria, and includes the industrial aspects and applications of cyanobacteria Cyanobacteria Biotechnology offers a guide to the interesting and useful features of cyanobacteria metabolism that keeps true to a biotechnology vision. In one volume the book brings together both biology and biotechnology to illuminate the core aspects and principles of cyanobacteria metabolism. Designed to offer a practical approach to the metabolic engineering of cyanobacteria, the book contains relevant examples of how this metabolic "module" is currently being engineered and how it could be engineered in the future. The author includes information on the requirements and real-world experiences of the industrial applications of cyanobacteria. This important book: Brings together biology and biotechnology in order to gain insight into the industrial relevant topic of cyanobacteria Introduces the key aspects of the metabolism of cyanobacteria Presents a grounded, practical approach to the metabolic engineering of cyanobacteria Offers an analysis of the requirements and experiences for industrial cyanobacteria Provides a framework for readers to design their own processes Written for biotechnologists, microbiologists, biologists, biochemists, Cyanobacteria Biotechnology provides a systematic and clear volume that brings together the biological and biotechnological perspective on cyanobacteria.

The Uncompahgre Project - David Clark 1994

Architecture Today - 1995

Bulletin - 1993

The ADA Practical Guide to Substance Use Disorders and Safe Prescribing - Michael O'Neil
2015-05-05

Dentists have been inundated by patients with an array of complicated medical conditions and pain/sedation management issues. This is in addition to a variety of legal regulations dentists must follow regarding the storage and recordkeeping of controlled substances. Avoid unknowingly putting your practice at risk by becoming a victim to a scam or violating a recordkeeping requirement with The ADA Practical Guide to Substance Use Disorders and Safe Prescribing. This Practical Guide is ideal for dentists and staff as they navigate:

- Detecting and deterring substance use disorders (SUD) and drug diversion in the dental office (drug-seeking patients)
- Prescribing complexities
- Treating patients with SUD and complex analgesic and sedation (pain/sedation management) needs and the best use of sedation anxiety medication
- Interviewing and counselling options for SUD
- Federal drug regulations

Commonly used illicit, prescription, and over-the-counter drugs, as well as alcohol and tobacco, are also covered. Special features include:

- Clinical tools proven to aid in the identification, interviewing, intervention, referral and treatment of SUD
- Basic elements of SUD, acute pain/sedation management, and drug diversion
- Summary of evidence-based literature that supports what, when and how to prescribe controlled substances to patients with SUD
- Discussion of key federal controlled substance regulations that frequently impact dental practitioners
- Checklists to help prevent drug diversion in dental practices
- Chapter on impaired dental

professionals • Case studies that examine safe prescribing and due diligence

Batteries for Implantable Biomedical Devices - B.B. Owens 2012-12-06

Small sealed electrochemical power units have developed remarkably in the last two decades owing to improvements in technology and a greater understanding of the underlying basic sciences. These high-energy-density sealed battery systems have made possible the safe and rapid development of lightweight implantable electrical devices, some of which, such as heart pacers, have reached a large market. In most of these devices the battery constitutes the majority of the device volume and weight, and limits the useful life. This book on Batteries for Implantable Biomedical Devices will be highly welcome to those interested in devices for heart pacing, pain suppression, bone repair, bone fusion, heart assist, and diabetes control, as well as numerous other biomedical devices that depend on sealed batteries. However, the material will also be extremely useful to a much broader audience, including those concerned with sealed batteries for such other difficult environments as space, the sea and remote locations.

Carbon Dioxide Utilization to Sustainable Energy and Fuels - Inamuddin 2021-11-30

This edited book provides an in-depth overview of carbon dioxide (CO₂) transformations to sustainable power technologies. It also discusses the wide scope of issues in engineering avenues, key designs, device fabrication, characterizations, various types of conversions and related topics. It includes studies focusing on the applications in catalysis, energy conversion and conversion technologies, etc. This is a unique reference guide, and one of the detailed works is on this technology. The book is the result of commitments by leading researchers from various backgrounds and expertise. The book is well structured and is an essential resource for scientists, undergraduate, postgraduate students, faculty, R&D professionals, energy chemists and industrial experts.

Innovative markets for sustainable agriculture - Food and Agriculture Organization of the United Nations 2018-07-20

Between 2013 and 2015, the Food and Agriculture Organization of the United Nations (FAO) and the French National Institute for Agricultural Research (INRA) undertook a survey of innovative approaches that enable markets to act as incentives in the transition towards sustainable agriculture in developing countries. Through a competitive selection process, 15 cases from around the world provide insights into how small-scale initiatives that use sustainable production practices are supported by market demand, and create innovations in the institutions that govern sustainable practices and market exchanges. These cases respond to both local and distant consumers' concerns about the quality of the food that they eat. The book evidences that the initiatives rely upon social values (e.g. trustworthiness, health [nutrition and food safety], food sovereignty, promotion of youth and rural development, farmer and community livelihoods) to adapt sustainable practices to local contexts, while creating new market outlets for food products. Specifically, private sector and civil society actors are leading partnerships with the public sector to build market infrastructure, integrate sustainable agriculture into private and public education and extension programmes, and ensure the exchange of transparent information about market opportunities. The results are: (i) system innovations that allow new rules for marketing and assuring the sustainable qualities of products; (ii) new forms of organization that permit actors to play multiple roles in the food system (e.g. farmer and auditor, farmer and researcher, consumer and auditor, consumer and intermediary); (iii) new forms of market exchange, such as box schemes, university kiosks, public procurement or systems of seed exchanges; and (iv) new technologies for sustainable agriculture (e.g. effective micro-organisms, biopesticides and soil analysis techniques). The public sector plays a key role in providing legitimate political and physical spaces for multiple actors to jointly create and share sustainable agricultural knowledge, practices and products.

C# 6.0 Cookbook - Jay Hilyard 2015-09-29

Completely updated for C# 6.0, the new edition of this bestseller offers more than 150 code recipes to common and not-so-common problems that C# programmers face every day. More than a third of the recipes have been rewritten to take advantage of new C# 6.0 features. If you prefer solutions to general C# language instruction and quick answers to theory, this is your book. C# 6.0 Cookbook offers new recipes for asynchronous methods, dynamic objects, enhanced error handling, the Roslyn compiler, and more. Here are some of the topics covered: Classes and generics Collections, enumerators, and iterators Data types LINQ

and Lambda expressions Exception handling Reflection and dynamic programming Regular expressions Filesystem interactions Networking and the Web XML usage Threading, Synchronization, and Concurrency Each recipe in the book includes tested code that you can download from oreilly.com and reuse in your own applications, and each one includes a detailed discussion of how and why the underlying technology works. You don't have to be an experienced C# or .NET developer to use C# 6.0 Cookbook. You just have to be someone who wants to solve a problem now, without having to learn all the related theory first.

Artificial Metalloenzymes and MetalloDNAzymes in Catalysis - Montserrat Diéguez 2018-02-21

An important reference for researchers in the field of metal-enzyme hybrid catalysis Artificial Metalloenzymes and MetalloDNAzymes in Catalysis offers a comprehensive review of the most current strategies, developed over recent decades, for the design, synthesis, and optimization of these hybrid catalysts as well as material about their application. The contributors—*noted experts in the field*—present information on the preparation, characterization, and optimization of artificial metalloenzymes in a timely and authoritative manner. The authors present a thorough examination of this interesting new platform for catalysis that combines the excellent selective recognition/binding properties of enzymes with transition metal catalysts. The text includes information on the various applications of metal-enzyme hybrid catalysts for novel reactions, offers insights into the latest advances in the field, and contains an informative perspective on the future: Explores the development of artificial metalloenzymes, the modern and strongly evolving research field on the verge of industrial application Contains a comprehensive reference to the research area of metal-enzyme hybrid catalysis that has experienced tremendous growth in recent years Includes contributions from leading researchers in the field Shows how this new catalysis combines the selective recognition/binding properties of enzymes with transition metal catalysts Written for catalytic chemists, bioinorganic chemists, biochemists, and organic chemists, Artificial Metalloenzymes and MetalloDNAzymes in Catalysis offers a unique reference to the fundamentals, concepts, applications, and the most recent developments for more efficient and sustainable synthesis.

The Indigenous World 2011 - Kathrin Wessendorf 2011

Published in both English and Spanish, *The Indigenous World 2011* contains a comprehensive update on the current situation of indigenous peoples and their human rights, and provides an overview of the most important developments in international and regional processes during 2010. More than sixty scholars and activists contributed their insight and knowledge to the book with: region and country reports covering the indigenous world and updated information on international and regional processes relating to indigenous peoples. This book is an essential source of information, and an indispensable tool for readers interested in relevant issues that have impacted indigenous peoples worldwide.

Guideline for Isolation Precautions in Hospitals - Julia S. Garner 1983

Synthetic Biology of Cyanobacteria - Weiwen Zhang 2018-08-08

This volume highlights recent breakthroughs in the interdisciplinary areas of synthetic biology, metabolic engineering and bioprocess engineering for the production of green chemicals. It also presents practical experimental and computational tools for the design, construction and manipulation of cyanobacteria cell factories. The respective contributions cover new technologies in the field, such as novel genetic transformation techniques and bioinformatics analysis methods and address various aspects of cyanobacterial synthetic biology, offering a valuable resource for students and researchers in the fields of industry microbiology and biomedical engineering.

Human Germline Genome Modification and the Right to Science - Andrea Boggio 2020-01-09

The advent of the CRISPR/Cas9 class of genome editing tools is transforming not just science and medicine, but also law. When the genome of germline cells is modified, the modifications could be inherited, with far-reaching effects in time and scale. Legal systems are struggling with keeping up with the CRISPR revolution and both lawyers and scientists are often confused about existing regulations. This book contains an analysis of the national regulatory framework in eighteen selected countries. Written by national legal experts, it includes all major players in bioengineering, plus an analysis of the emerging international standards and a discussion of how international human rights standards should inform national and international regulatory frameworks. The authors propose a set of principles for the regulation of germline

engineering, based on international human rights law, that can be the foundation for regulating heritable gene editing both at the level of countries as well as globally.

Prudent Practices in the Laboratory - National Research Council 1995-09-16

This volume updates and combines two National Academy Press bestsellers--*Prudent Practices for Handling Hazardous Chemicals in Laboratories* and *Prudent Practices for Disposal of Chemicals from Laboratories*--which have served for more than a decade as leading sources of chemical safety guidelines for the laboratory. Developed by experts from academia and industry, with specialties in such areas as chemical sciences, pollution prevention, and laboratory safety, *Prudent Practices for Safety in Laboratories* provides step-by-step planning procedures for handling, storage, and disposal of chemicals. The volume explores the current culture of laboratory safety and provides an updated guide to federal regulations. Organized around a recommended workflow protocol for experiments, the book offers prudent practices designed to promote safety and it includes practical information on assessing hazards, managing chemicals, disposing of wastes, and more. *Prudent Practices for Safety in Laboratories* is essential reading for people working with laboratory chemicals: research chemists, technicians, safety officers, chemistry educators, and students.

Regenerating London - Rob Imrie 2009-01-13

Regenerating London explores latest thinking on urban regeneration in one of the fastest changing world cities. Engaging with social, economic, and political structures of cities, it highlights paradoxes and contradictions in urban policy and offers an evaluation of the contemporary forms of urban redevelopment.

The Manipulation of Air-Sensitive Compounds - Duward F. Shriver 1986-11-05

Revised to reflect the continuing and growing importance of research and development within this field, *The Manipulation of Air-Sensitive Compounds*, 2nd Edition offers state-of-the-art methods used in handling air-sensitive compounds, including gases. Part One covers inert atmosphere techniques, while Part Two treats vacuum line techniques. Appendixes provide safety data, information on materials used to construct apparatus, and a table of vapor pressures of common volatile substances.

Sustainable Bioresource Management - Ratikanta Maiti 2020-04-21

This new volume emphasizes the drastic quantitative and qualitative transformation of our surrounding environment and looks at bioresource management and the tools needed to manage environmental stresses. This unique compilation and interpretation of concrete scientific ventures undertaken by environmental specialists at the global level explores research dedicated to the management of natural resources by controlling biotic and abiotic factors that make the earth vulnerable to these stresses. The chapter authors look at all types of bioresources on earth and their management at times of stress/crisis, focusing on the need for documentation, validation, and recovery of ethnic indigenous knowledge and practices that could have great impact in stress management. The book looks at topics in nature and changing climate management, adaptation, and mitigation, such as the effects of climate change on agriculture and horticulture, on timber harvesting, and on forest resources. Also specifically discussed are crop resources management, seed crops, tree seedlings, soil management, and conservation practices. The volume also includes chapters on animal resources management.

Circadian Rhythms in Bacteria and Microbiomes - Carl Hirschbiegel Johnson 2021-06-21

This book addresses multiple aspects of biological clocks in prokaryotes. The first part of the book deals with the circadian clock system in cyanobacteria, i.e. the pioneer of bacterial clocks. Starting with the history and background of cyanobacteria and circadian rhythms in microorganisms, the topics range from the molecular basis, structure and evolution of the circadian clock to modelling approaches, Kai systems in cyanobacteria and biotechnological applications. In the second part, emergent timekeeping properties of bacteria in microbiomes and bacteria other than cyanobacteria are discussed. Since the discovery of circadian rhythms in cyanobacteria in the late 1980s, the field has exploded with new information. The cyanobacterial model system for studying circadian rhythms (*Synechococcus elongatus*), has allowed a detailed genetic dissection of the bacterial clock due to state-of-the-art methods in molecular, structural, and evolutionary biology. Cutting-edge research spanning from cyanobacteria and circadian phenomena in other kinds of bacteria, to microbiomes has now given the field another major boost. This book is aimed at junior and senior researchers alike. Students or researchers new to the field of biological clocks in

prokaryotes will get a comprehensive overview, while more experienced researchers will get an update on the latest developments.

Infantryman's Guide To Combat In Built-Up Areas - U.S. Army 1994-11-01

This combat manual covers ground operations in urban settings. It clearly outlines skills unique to city fighting, including analyzing terrain, seizing blocks and buildings, setting up firing positions, scaling walls, employing snipers, evaluating civilian impact and effects of small arms and support weapons, and much more.

Book of Abstracts of the 62nd Annual Meeting of the European Association for Animal Production - Eaap 2011-08

This Book of Abstracts is the main publication of the 62nd Annual Meeting of the European Association for Animal Production (EAAP) held in Stavanger, Norway from 29 August - 2 September 2011. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation. Also, important problems were discussed during the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems. In addition joint sessions on topics interesting several disciplines and species were included in the programme.

Striking a Balance - Sandra Coliver 1992

CK-12 Calculus - CK-12 Foundation 2010-08-15

CK-12 Foundation's Single Variable Calculus FlexBook introduces high school students to the topics covered in the Calculus AB course. Topics include: Limits, Derivatives, and Integration.

Dictionary of Acronyms and Technical Abbreviations - Jakob Vlietstra 2012-12-06

This Dictionary covers information and communication technology (ICT), including hardware and software; information networks, including the Internet and the World Wide Web; automatic control; and ICT-related computer-aided fields. The Dictionary also lists abbreviated names of relevant organizations, conferences, symposia and workshops. This reference is important for all practitioners and users in the areas mentioned above, and those who consult or write technical material. This Second Edition contains 10,000 new entries, for a total of 33,000.

Engineering and Analyzing Multicellular Systems - Lianhong Sun 2014-05-18

Engineering Multicellular Systems: Methods and Protocols, focuses on laboratory procedures used in recent efforts for constructing synthetic multicellular systems and their applications. In particular, constructing multicellular systems to form various microbial ecosystems has been extensively explored to examine evolution and interactions of microbial ecosystems, while co-cultures have emerged as an efficient tool to produce some complex chemical molecules. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls. Engineering Multicellular Systems: Methods and Protocols provide a comprehensive laboratory protocol reference for constructing multicellular systems for various applications.

The Story of Bankside - Leonard Reilly 2001

Political Strategies and Social Movements in Latin America - Leonidas Oikonomakis 2018-07-12

This book investigates how social movements form their political strategies in their quest for social change and -when they shift from one strategy to another- why and how that happens. The author creates a model which distinguishes between two different roads to social change: one that passes through the seizure of state power and one that avoids any relationship with the state. Comparing the cases of two Latin American social movements, the Zapatistas in Mexico and the Bolivian Cocaleros, the volume argues that strategic choices are often decided upon through similar mechanisms. Ideal for a scholarly and non-specialist audience interested in Mexican and Bolivian politics, revolutions, and Latin American and social movement studies.

Spectral Theory and Applications of Linear Operators and Block Operator Matrices - Aref Jeribi 2015-07-04

Examining recent mathematical developments in the study of Fredholm operators, spectral theory and block operator matrices, with a rigorous treatment of classical Riesz theory of polynomially-compact operators, this volume covers both abstract and applied developments in the study of spectral theory. These topics are intimately related to the stability of underlying physical systems and play a crucial role in many branches of mathematics as well as numerous interdisciplinary applications. By studying classical Riesz theory of polynomially compact operators in order to establish the existence results of the second kind operator equations, this volume will assist the reader working to describe the spectrum, multiplicities and localization of the eigenvalues of polynomially-compact operators.

Socio-economic Systems: Paradigms for the Future - Elena G. Popkova 2021-03-05

This book is reflective of a science-based vision of the future development paradigm of economic and social systems. It deals with the digitization as the technological basis for the future development of economic and social systems and presents a review of groundbreaking technologies and prospects for their application. The specific character of the industry and prospects for the application of digital technologies in business are analyzed. A rationale is provided for future prospects for the sustainable development of economic and social systems in a digital economy. The authors determine the process of the formation and development of the information-oriented society, social and educational aspects of the digitization, as well as the institutional framework of the digital future of social and economic systems. The book combines the best works following the results of the 12th International Research-to-Practice Conference "Artificial Intelligence: Anthropogenic Nature vs. Social Origin" that was held by the Institute of Scientific Communications (ISC) in cooperation with the Siberian Federal University and the Krasnoyarsk Regional Fund of support of scientific and scientific-technical activities on 5-7 December 2019, in Krasnoyarsk, Russia, as well as following the results of the 3rd International Research-to-Practice Conference "Economic and Social Systems: Paradigms for the Future" that was held by the ISC in cooperation with the Pyatigorsk State University on 5-6 February 2020. The target audience of the book consists of representatives of the academic community concerned with the future prospects for the development of economic and social systems, as well as economic agents engaged in the digitization of business processes, and representatives of public agencies regulating the development of business systems for their progressivity, sustainability and competitiveness.