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Python for Data Science Yuli Vasiliev 2022-08-02 A hands-on, real-world introduction to data analysis with the Python programming language, loaded with wide-ranging examples. Python is an ideal choice for accessing, manipulating, and gaining insights from data of all kinds. Python for Data Science introduces you to

the Pythonic world of data analysis with a learn-by-doing approach rooted in practical examples and hands-on activities. You'll learn how to write Python code to obtain, transform, and analyze data, practicing state-of-the-art data processing techniques for use cases in business management, marketing, and decision support. You will discover Python's rich set of built-in data

structures for basic operations, as well as its robust ecosystem of open-source libraries for data science, including NumPy, pandas, scikit-learn, matplotlib, and more. Examples show how to load data in various formats, how to streamline, group, and aggregate data sets, and how to create charts, maps, and other visualizations. Later chapters go in-depth with demonstrations of real-world data applications, including using location data to power a taxi service, market basket analysis to identify items commonly purchased together, and machine learning to predict stock prices.

Current Problems of the Global Environmental Economy

Under the Conditions of Climate Change and the

Perspectives of Sustainable Development Elena G. Popkova

2023-01-31 This book presents a systemic view of the global environmental economy under the conditions of climate change from the positions of Sustainable Development Goals. The purpose of the book is to study the current problems of the global environmental economy under the conditions of climate change and to determine the prospects of its sustainable development (systemic support for the SDGs). This goal predetermines the logic and structure of the book, which is comprised of five parts. Part I presents the authors' novel view of the global environmental economy under the conditions of climate change from the positions of the SDGs. It reflects the contradiction and describes the path of preserving economic growth during the implementation of SDG 13. The COVID-19 pandemic and economic crisis are considered as the result of the reduction of biodiversity under the conditions of climate change from the positions of SDG 3. Responsible innovations, eco-friendly products, and green trade are presented as trends of the environmental economy under the conditions of climate change to support SDG 12. Green jobs are analyzed in the environmental economy under the conditions of climate change during the implementation of SDG 8. The significance of social inclusivity and reduction of the inequality of the environmental economy under the conditions of climate change to support SDG 10 is noted. Part II elaborates on the sectoral specifics of the influence of climate change on the environmental economy: energetics, finance, industry, state management, and agriculture. Part III presents and discusses the international experience of development of the environmental economy under the conditions of climate change given the specifics of developed and developing countries and based on the case experience of Central Asia, the EAEU, and Russia. In Part IV, technological transition (Fourth Industrial Revolution) is offered as a perspective response of the global economic policy to climate change. Scenarios of the fight against climate change in the Decade of Action depending on the scale of the technological transition are described: digital economy vs Industry 4.0 and Society 5.0. The perspectives of the technological transition at the level of companies (creation of cyber-physical systems of Industry 4.0; green digital innovations and smart ESG finance) and regions (smart region as a socio-economic environment with large adaptability to climate change) are described.

Big Data in Finance Thomas Walker 2022-10-03 This edited book explores the unique risks, opportunities, challenges, and societal implications associated with big data developments within the field of finance. While the general use of big data has been the subject of frequent discussions, this book will take a more focused look at big data applications in the financial sector. With contributions from researchers, practitioners, and entrepreneurs involved at the forefront of big data in finance, the book discusses technological and business-inspired breakthroughs in the field. The contributions offer technical insights into the different applications presented and highlight how these new developments may impact and contribute to the evolution of the financial

sector. Additionally, the book presents several case studies that examine practical applications of big data in finance. In exploring the readiness of financial institutions to adapt to new developments in the big data/artificial intelligence space and assessing different implementation strategies and policy solutions, the book will be of interest to academics, practitioners, and regulators who work in this field. **The Making of a Pandemic** John Ehrenreich 2022-05-30 The Making of a Pandemic provides a systematic account of how societal and psychological forces shaped the Covid-19 pandemic. The first part focuses on how biological and societal factors interact to create a pandemic. The second part explores how characteristics of the American economy, the American approach to public health, and domestic and international inequality combined to prolong the pandemic, hamper mitigation efforts, and arouse opposition to cooperation with public health measures. The third part examines the psychological processes that led to resistance to efforts to mitigate the pandemic and linked the resistance to right-wing ideologies. The book concludes by looking at the limits of the technical and medical reforms others have proposed to protect us from repetitions of the Covid-19 disaster and by calling for a "deep confrontation" with the societal and psychological factors that created and shaped the pandemic.

To the Moon Investing Kelly J. Frank 2022-12-08 Hands-on, practical strategies to build your financial future In To the Moon Investing: Visually Mapping Your Winning Stock-Market Portfolio, veteran asset investor Kelly James Frank delivers an exciting and intuitive fresh approach that enables you to navigate an increasingly volatile market through the use of tailored portfolio maps. In the book, you'll learn how to understand risk and how it affects you as an investor, how to prepare for your investing future, and how to uncover why you want to invest. You'll also shore up your financial literacy and explore the difference between growth and value strategies. The book offers a vivid and innovative approach to investing that you'll actually have fun reading and its engaging philosophy ensures you'll be able to put your newfound knowledge to work immediately. You'll discover: The interconnected five factors that determine a share's current and future value Summaries, charts and sketches to help you remember the book's key insights and that you can use to record your own market observations and understanding An exploration of macroeconomics that sheds light on how decisions made by the Fed and the government can impact you as an individual investor The perfect combination of fun and informative, To the Moon Investing: Visually Mapping Your Winning Stock-Market Portfolio is an energetic and authoritative playbook to building a resilient and profitable investment portfolio.

The End of Reality Jonathan Taplin 2023-09-05 An instant bestseller! A brilliant takedown and exposé of the great con job of the twenty-first century—the metaverse, crypto, space travel, transhumanism—being sold by four billionaires (Peter Thiel, Mark Zuckerberg, Marc Andreessen, Elon Musk), leading to the degeneration and bankruptcy of our society. At a time when the crises of income inequality, climate, and democracy are compounding to create epic wealth disparity and the prospect of a second American civil war, four billionaires are hyping schemes that are designed to divert our attention away from issues that really matter. Each scheme—the metaverse, cryptocurrency, space travel, and transhumanism—is an existential threat in moral, political, and economic terms. In The End of Reality, Jonathan Taplin provides perceptive insight into the personal backgrounds and cultural power of these billionaires—Peter Thiel, Elon Musk, Mark Zuckerberg, and Marc Andreessen ("The Four")—and shows

how their tech monopolies have brought middle-class wage stagnation, the hollowing out of many American towns, a radical increase in income inequality, and unbounded public acrimony. Meanwhile, the enormous amount of taxpayer money to be funneled into the dystopian ventures of "The Four," the benefits of which will accrue to billionaires, exacerbate these disturbing trends. *The End of Reality* is both scathing critique and reform agenda that replaces the warped worldview of "The Four" with a vision of regenerative economics that seeks to build a sustainable society with healthy growth and full employment.

Vital Statistics of the United States 2022 Shana Hertz Hattis 2022-07-30 *Vital Statistics of the United States: Births, Life Expectancy, Deaths, and Selected Health Data* brings together a comprehensive collection of birth, mortality, health, and marriage and divorce data into a single volume. It provides a wealth of information compiled by the National Center for Health Statistics and other government agencies. *Vital Statistics* contains over 225 tables and is divided into four parts: Births, Mortality, Health, and Marriage and Divorce. Charts and graphs, available at applicable points in each chapter, illustrate some of the most vital trends in the data. In addition, updated definitions reflect the latest federal parameters for information about births, mortality, health, and marriages. New COVID-19 data is woven into each section where appropriate. Some of the new tables include data on pregnant women with COVID-19, historical daily case trends, and demographic characteristics of people receiving the vaccine.

Gender and Journalism Mary Angela Bock 2023-11 *Gender* has a tremendous effect on journalists and the journalism industry; the stories they tell; and the people who consume those stories. Alongside histories of journalism, equal rights, and feminist movements, this textbook incorporates issues of race, class, and sexuality including the experiences of men and LGBTQ communities.

Protests, Pandemic, and Security Predicaments Wei-chin Lee 2023-06-27 This book examines how Asian countries have responded to urgent challenges against a backdrop of climactic political developments, as well as the effects of issue linkage in policy making. Chapters are arranged according to localities but interlinked through their thematic and critical analyses. The section on Hong Kong focuses on the theme of protests, highlighting its intersection with identity and generational shifts in addition to legal, political and economic changes before and after the adoption of Hong Kong National Security Law. The section examining Taiwan's policies discusses electoral calculations, identity reconstruction, cross-Strait stalemate and alliance maneuvers within USA-China-Taiwan triangular international relations, providing an overview of its domestic and external policies. Through their analysis, the authors here determine that China has emphasized the prerogatives of history, culture and territorial sovereignty in its dealings with the Hong Kong protests and Taiwan, and that cross-Strait analysis must be deliberated and ultimately determined within the USA-China-Taiwan triangular framework. In the final section, authors examine the USA's role and policy in dealing with both sides of the Taiwan Strait. Hegemonic power transition has been a primary concern in both countries with the USA's hegemonic status facing daunting challenges from China, increasingly perceived as an ascending revisionist power waiting to overtake the USA in the future.

The Global Nuclear Landscape Manpreet Sethi 2023-06-02 Like shifting sands of a desert, the global nuclear landscape changes every few years across its three main constituents - nuclear energy, non-proliferation and disarmament. Each of these has seen phases of cautious

optimism, deep scepticism and outright pessimism over the last two decades. This book offers a bird's eye view on all the three, even as the individual authors offer a worm's eye view on each specific topic within the larger ambit. The first section of the book examines developments in the nuclear energy sector. A broad-brush scan of the contemporary drivers and challenges for nuclear energy at a global level, as also that of India, reveals a positive trend line. There is also cautious optimism around the concept, developments and prospects of small modular reactors. It remains to be seen how effectively and quickly licensing and regulation issues are resolved for the new concepts to become commercially viable. The second part of the book is devoted to non-proliferation. Vertical nuclear and missile proliferation amongst nuclear armed states, and horizontal proliferation cases of Iran and possibilities in East Asia are considered. Nuclear terrorism and the state of the NPT are also examined. Collectively, these issues reflect a mood of pessimism on non-proliferation at this juncture. Neither is there much to cheer on nuclear disarmament. The last section of the book examines the consequences of use of nuclear weapons, concepts of CBMs and arms control, and recent disarmament initiatives. A tentative exploration of the prospects of disarmament in the wake of Russia-Ukraine conflict is also undertaken. A hope that good sense will prevail, and fear that it might not, seem to coexist at this moment. It is in India's interest to proactively shape the landscape across these three elements. The book seeks to provide the basis to do so.

International Investment Law and Investor-State Disputes in Central Asia Kiran Nasir Gore 2022-12-09 The five Central Asian States – Kazakhstan, the Kyrgyz Republic, Tajikistan, Turkmenistan and Uzbekistan – collectively present a unique case study for the nexus between international investment frameworks, investor-State dispute settlement (ISDS) and the future of this field. In this groundbreaking book, the editors have curated contributions from globally renowned practitioners and scholars to provide the first comprehensive overview of experiences and lessons arising from the region. This book draws upon the Central Asian experience with international investment law and ISDS to develop globally relevant insights and analyses on, among other topics: approaches to foreign direct investment and domestic investment legislation; jurisdictional questions arising in investment treaty arbitration, such as the notion of 'investor' and the definition of 'investment'; the interpretation of investment treaties and the role of international and domestic law; substantive and procedural rights of foreign investors, with a focus on guarantees against expropriation and most-favoured nation and fair and equitable treatment standards; arbitral awards, as well as grounds and procedures for their enforcement and annulment; the state-of-play for allegations of corruption and fraud once a dispute has arisen; and emerging challenges and opportunities in light of ongoing reform initiatives. This book establishes that the Central Asian experience should be taken into consideration in any comprehensive and robust discussion on the future of international investment law and ISDS. It provides useful analyses of how these frameworks may be improved, reformed and remain fit for purpose. This book is an essential tool that allows practitioners, arbitrators, policymakers and scholars to confidently engage with the substantive and procedural challenges and opportunities that are anticipated in the next generation of investor-State disputes.

Exploring Sexuality and Disability Shanna Katz Kattari 2023-09-01 Offering a current, comprehensive, and intersectional guide for students, practitioners, and researchers, this book synthesizes existing scholarship on culturally responsive practices that assist in

exploring, understanding, and affirming the sexuality(ies) of disabled, chronically ill, neurodivergent, and Mad individuals. Drawing on an intersectional framework, it integrates insights drawn from an interdisciplinary body of scholarship including psychology, social work, sociology, history, political science, women and gender studies, cultural studies, and education along with perspectives from the practitioners who are actively defining the next generation of best practices. By highlighting the incredible resilience and resistance of disabled individuals' and communities' sexuality and sexual well-being, this book challenges narratives that rely primarily on a one-dimensional view derived from the medical model and the view of disability as something to be "fixed" – or at least tolerated – rather than celebrated. In a world that pathologizes and devalues the sexual existence of disabled individuals, it illustrates how to create thriving communities and relationships, and how they can organize to find their voice, providing a counter-narrative of empowerment that fosters hopefulness, power, and health. It will be of interest to all scholars, students, and professionals across a variety of professions, including social work, psychology, counseling, policy, healthcare, education, community organizing, and multiple social service settings.

Routledge Handbook of Transnational Terrorism Nicolas Stockhammer 2023-08-17 This handbook provides contributions by some of the world-leading experts in the field on recent phenomena and trends in transnational terrorism. Based on the methodological approach of a trend-and-key factor analysis of transnational terrorism and processed on the virtual platform "Foresight Strategy Cockpit" (FSC), the volume seeks to examine what potential future variants of transnational terrorism may evolve. Focusing on the latest structural developments in the sphere of politically or religiously motivated violence, the handbook considers the tactical, strategic, and not least the systemic dimension of terrorism. Divided into seven thematic sections, the handbook's contributions cover a wide range of issues, dealing among others with strategic and hybrid terrorism, the systemic dimension of extremist violence, prevalent actors, counter-narratives, the crime terror-nexus, the role of digitalization and the spiral dynamic between Islamist and right-wing terrorism. The expert contributions provide a condensed overview of current developments, structural linkages and important academic debates centering around transnational salafi-jihadi terrorism, but also right-wing terrorism and counter-terrorism. A key objective of the work is to make the effects of prevention/preemption, (de-) radicalization and (non-) intervention both transparent and assessable. As such, it contributes well-founded strategies, feasible solutions and options for policy-makers and counter-terrorism experts. This volume will be of great interest to students of terrorism and counter-terrorism, political violence and security studies.

Official Summary of Security Transactions and Holdings Reported to the Securities and Exchange Commission Under the Securities Exchange Act of 1934 and the Public Utility Holding Company Act of 1935 1999-03-10

Cryptocurrency QuickStart Guide Jonathan Reichental, PhD 2023-02-27 THE ULTIMATE BEGINNER'S GUIDE TO LEARNING EXACTLY HOW CRYPTOCURRENCY WORKS IN 2023 - INCLUDES EXCLUSIVE CRYPTO PORTFOLIO MANAGER WORKBOOK

Cryptocurrency is more than just the future of money. Whether the market is up or down, cryptocurrencies are here to stay. It's no secret that the crypto landscape can be confusing to the uninitiated. In *Cryptocurrency QuickStart Guide*, Dr. Jonathan Reichental draws from his decades of experience as a technology and business leader to break down exactly how crypto works and what newcomers to the space need to know. Presented in plain

language that is stripped of jargon and unsubstantiated predictions, this thorough and approachable look at the world of cryptocurrency is the perfect starting point for anyone embarking on their own crypto journey. Regardless of whether you want to learn more about cryptocurrency to become a more informed investor, or you feel you might be missing out on the next big thing, or you just want to familiarize yourself with the future of money, there is something in this book for you! CRYPTOCURRENCY QUICKSTART GUIDE IS PERFECT FOR: - New or existing crypto investors who want to better understand cryptocurrencies on a technical level - People who feel overwhelmed by contradictory or inflated information surrounding the crypto space - Crypto investors who want to buy and sell their coins or branch out into mining or altcoins - Crypto newcomers who need a comprehensive overview or feel like they are missing out on the opportunities Bitcoin, Ethereum, and altcoins can offer - Anyone who is interested in learning more about the future of digital currencies! CRYPTOCURRENCY QUICKSTART GUIDE EXPLAINS: - How the history of money has led us to this moment - How blockchain technology works and how it powers popular cryptocurrencies like Bitcoin - What beginners need to know about the crypto universe including Ethereum, altcoins, and tokens - How to buy, sell, and trade cryptocurrencies along with critical considerations investors need to know - How the recent trend of DeFi interacts with traditional financial institutions, how NFTs fit into the world of crypto, how crypto mining works, international crypto considerations, and more! YOU WILL LEARN: - Crypto Fundamentals – Exactly How Crypto Works and What the Future May Hold for Digital Currency - Bitcoin and Beyond – The Differences Between Leading Coins, the Ethereum Network, and Altcoins, Plus More! - How to Be a Better Investor – How to Invest on Exchanges Using a Secure Crypto Wallet - Crypto Mechanics – How Crypto Mining Works and How to Store, Trade, and Safeguard Your Assets - The Future of Money – Where Bitcoin, Ethereum, and Altcoins Are Headed and What Investors Need to Know *LIFETIME ACCESS TO FREE CRYPTOCURRENCY DIGITAL ASSETS* - Crypto Portfolio Manager Workbook - Crypto Research and Analysis Link Library - Major Cryptocurrencies Library *GIVING BACK* QuickStart Guides proudly supports One Tree Planted as a Reforestation partner. Working with One Tree Planted, we plant trees where they are needed most!

Climatological Data for the United States by Sections 1963 Collection of the monthly climatological reports of the United States by state or region, with monthly and annual national summaries.

Furniture, Works of Art & Clocks Woolley & Wallis 2022 **The Routledge Handbook of Privacy and Social Media** Sabine Trepte 2023-06-27 This volume provides the basis for contemporary privacy and social media research and informs global as well as local initiatives to address issues related to social media privacy through research, policymaking, and education. Renowned scholars in the fields of communication, psychology, philosophy, informatics, and law look back on the last decade of privacy research and project how the topic will develop in the next decade. The text begins with an overview of key scholarship in online privacy, expands to focus on influential factors shaping privacy perceptions and behaviors – such as culture, gender, and trust – and continues with specific examinations of concerns around vulnerable populations such as children and older adults. It then looks at how privacy is managed and the implications of interacting with artificial intelligence, concluding by discussing feasible solutions to some of the more pressing questions surrounding online privacy. This handbook will be a valuable resource for advanced students, scholars, and policymakers in the fields of communication studies, digital media studies, psychology, and computer science.

Knowledge Management in Organisations Lorna Uden

2022-07-04 This book contains the refereed proceedings of the 16th International Conference on Knowledge Management in Organizations, KMO 2022, held in Hagen, Germany, in July 2022. The 24 full papers and 5 short papers accepted for KMO 2022 were selected from 61 submissions and are organized in topical sections on: knowledge transfer and sharing; knowledge and organization; knowledge and service innovation; industry 4.0; information and knowledge systems; intelligent science; AI and new trends in KM.

World Internet Development Report 2022 Chinese Academy of Cyberspace Studies

War Made Invisible Norman Solomon 2023-06-13 From the acclaimed veteran political analyst, a searing new exposé of how the American military, with the help of the media, conceals its perpetual war “No one is better at exposing the dynamics of media and politics that keep starting and continuing wars. War Made Invisible will provide the fresh and profound clarity that our country desperately needs.” –Daniel Ellsberg More than twenty years ago, 9/11 and the war in Afghanistan set into motion a hugely consequential shift in America’s foreign policy: a perpetual state of war that is almost entirely invisible to the American public. War Made Invisible, by the journalist and political analyst Norman Solomon, exposes how this happened, and what its consequences are, from military and civilian casualties to drained resources at home. From Iraq through Afghanistan and Syria and on to little-known deployments in a range of countries around the globe, the United States has been at perpetual war for at least the past two decades. Yet many of these forays remain off the radar of average Americans. Compliant journalists add to the smokescreen by providing narrow coverage of military engagements and by repeating the military’s talking points. Meanwhile, the increased use of high technology, air power, and remote drones has put distance between soldiers and the civilians who die. Back at home, Solomon argues, the cloak of invisibility masks massive Pentagon budgets that receive bipartisan approval even as policy makers struggle to fund the domestic agenda. Necessary, timely, and unflinching, War Made Invisible is an eloquent moral call for counting the true costs of war.

Leveraging Applications of Formal Methods, Verification and Validation. Practice Tiziana Margaria 2022-10-19

This four-volume set LNCS 13701-13704 constitutes contributions of the associated events held at the 11th International Symposium on Leveraging Applications of Formal Methods, ISoLA 2022, which took place in Rhodes, Greece, in October/November 2022. The contributions in the four-volume set are organized according to the following topical sections: specify this - bridging gaps between program specification paradigms; x-by-construction meets runtime verification; verification and validation of concurrent and distributed heterogeneous systems; programming - what is next: the role of documentation; automated software re-engineering; DIME day; rigorous engineering of collective adaptive systems; formal methods meet machine learning; digital twin engineering; digital thread in smart manufacturing; formal methods for distributed computing in future railway systems; industrial day.

School Choice and the Impact of COVID-19 Michael Guo-Brennan 2023-07-31 Through the broad lens of political economy and centred around education reform policy, this essential book provides an in-depth analysis of the current state of American public education and the impact of Covid-19 on calls for change. Drawing upon evidence from nations that routinely outperform America, this text proposes a more holistic approach to accountability and improvement within the American public education system. Chapters explore the issues faced by the current American public education system and proposes potential solutions, including: the role of

government as provider of education services; liberty, democracy, and freedom and the ability of parents to control their child’s education; growing frustration with schools, public policies surrounding Covid and other potential crises; and how these concerns will impact the school choice movement. This is an important read for researchers and postgraduate students in education, teachers, parents, public policy makers and appointed government officials who wish to improve the quality of public education. Whether for or against school choice, this book will leave you better informed on current issues of American public education.

Approaching Democracy Larry Berman 2023-08-28 Democracy cannot be taken for granted, whether at home or internationally, and eternal vigilance (along with civic intelligence) is required to protect it. Approaching Democracy provides students with a framework to analyze the structure, process, and action of US government, institutions, and social movements. It also invites comparison with other countries. This globalizing perspective gives students an understanding of issues of governance and challenges to democracy here and elsewhere. At a moment of political hyper-partisanship, economic tensions, media misinformation, hyper-partisanship, and anxieties about the future of civil rights, this is the ideal time to introduce Approaching Democracy--a textbook based on Vaclav Havel’s powerful metaphor of democracy as an ideal and the American experiment as the closest approach to it--to a new generation of political science undergraduate students. NEW TO THE TENTH EDITION Updated to reflect the results of the 2022 midterm elections and explore the implications of Congressional redistricting, voting suppression, and voting rights legislation. Covers the first two years of the Biden administration and provides a thorough retrospective on the Trump presidency—including updates on the January 6 Commission findings and the Justice department’s investigation into Trump’s alleged misappropriation of classified government documents. Presents the developments on the Supreme Court including the appointment of its two newest justices and major recent decisions including controversial rulings on reproductive health, the separation of church and state, and the environment. Explores the revival of NATO and other international alliances in the context of the Russian invasion of Ukraine. New and updated material has also been provided regarding gun control, healthcare, labor rights, immigration, economic policy, COVID-19’s lingering impacts, and the ongoing struggle for social and racial justice in America.

On the Horizon Reja Younis 2023-05-12 The Nuclear Scholars Initiative is a signature program run by the Project on Nuclear Issues at the Center for Strategic and International Studies to engage emerging nuclear experts in thoughtful and informed debate over how to best address the nuclear community’s most pressing problems. The papers included in this volume comprise research from participants in the 2022 Nuclear Scholars Initiative. These papers explore a range of crucial debates across deterrence, arms control, and disarmament communities.

A Comprehensive Approach to Digital Manufacturing Arif Sirinterlikci 2023-04-04 This book draws a comprehensive approach to digital manufacturing through computer-aided design (CAD) and reverse engineering content complemented by basic CNC machining and computer-aided manufacturing (CAM), 3D printing, and additive manufacturing (AM) knowledge. The reader is exposed to a variety of subjects including the history, development, and future of digital manufacturing, a comprehensive look at 3D printing and AM, a comparative study between 3D printing and AM and CNC machining, and computer-aided engineering (CAE) along with 3D scanning. Applications of 3D printing and AM are presented as well as multiple

special topics including design for 3D printing and AM (DfAM), costing, sustainability, environmental, safety, and health (EHS) issues. Contemporary subjects such as bio-printing, intellectual property (IP) and engineering ethics, virtual prototyping including augmented, virtual, and mixed reality (AR/VR/MR), and industrial Internet of Things (IIoT) are also covered. Each chapter comes with in-practice exercises and end-of-chapter questions, which can be used as home-works as well as hands-on or software-based laboratory activities. End-of-chapter questions are of three types mainly: review questions which can be answered by reviewing each chapter, research questions which need to be answered by conducting literature reviews and additional research, and discussion questions. In addition, some of the chapters include relevant problems or challenges which may require additional hands-on efforts. Most of the hands-on and practical content is driven by the authors' previous experiences. The authors also encourage readers to help improve this book and its exercises by contacting them.

Megathreats Nouriel Roubini 2022-10-18 "Read and pay attention" (Martin Wolf, the Financial Times): the bestselling author of *Crisis Economics* argues we are heading toward the worst economic catastrophe of our lifetimes, unless we can defend against ten terrifying threats. Renowned economist Nouriel Roubini was nicknamed "Dr. Doom," until his prediction of the 2008 housing crisis and Great Recession came true--when it was too late. Now he is back with a much scarier prediction, one that we ignore at our peril. There are no fewer than ten overlapping, interconnected threats that are so serious, he calls them Megathreats. From the worst debt crisis the world has ever seen, to governments pumping out too much money, to borders that are blocked to workers and to many shipments of goods, to the rise of a new superpower competition between China and the U.S., to climate change that strikes directly at our most populated cities, we are facing not one, not two, but ten causes of disaster. There is a slight chance we can avoid them, if we come to our senses--but we must act now. In the 1970s, the U.S. faced stagflation: high rates of inflation combined with stagnant employment and growth. Today, we are heading toward a Great Stagflation that will make the 1970s look like a walk in the park.

Reckoning & Resilience 2022

Bodies, Territories and Serious Violations of Human

Rights in Mexico Miguel Angel Martínez Martínez

2023-10-20 This book seeks to contribute to the analysis of the serious violations of human rights in Mexico during the processes of democratic transition and the "War on Drugs" by taking bodies and territories as archives of the crimes committed by the Mexican State in the last decades. The text presents an analysis of the disappearance of persons, forced internal displacement, and gender violence as systematic expressions of State violence. These fields of research allow us to point out tensions between social practices and the institutional fragility that systematically denies human rights violations while at the same time ratifies and celebrates them. The thematic knotting between bodies and territories is anchored in the processes of shaping a memory that expresses State violence and presents the silenced resistances of minority social groups that elude the traditional forms of registration, control and collection of data. From these coordinates, body-territories are approached as scenarios where intersectionally-knotted violences unfold. The theoretical approaches considered are mobilized through a critical approach to capitalism, colonialism and patriarchy in order to analyze public policies and narratives related to the protection of bodies-territories, as well as the responses to the needs, interests and preferences of different groups and

individuals whose lives are marked by the experience of serious human rights violations. Finally, this approach also considers the new ways in which crimes against humanity unfold in situations of democratic transition, as well as the forms of symbolic exchanges in the transmission of meaning and community bonding. *Bodies, Territories and Serious Violations of Human Rights in Mexico* will be of interest to academic researchers and graduate students in different fields of knowledge, such as criminology, sociology, history, anthropology, philosophy, psychology and the interdisciplinary field of human rights studies.

Information Wars in the Baltic States Janis Chakars 2022-09-26 This edited volume, featuring accomplished scholars, is about the information wars in the Baltic states, a battle that pits Russia against the West with Estonia, Latvia and Lithuania as sites of contention for great power politics. Chapters address responses from titular populations, local Russian speakers, national governments, activists, journalists, and NATO, as well as the impact of Russian foreign policy on media.

Natural Language Processing in the Real World Jyotika Singh 2023-07-03 *Natural Language Processing in the Real World* is a practical guide for applying data science and machine learning to build Natural Language Processing (NLP) solutions. Where traditional, academic-taught NLP is often accompanied by a data source or dataset to aid solution building, this book is situated in the real world where there may not be an existing rich dataset. This book covers the basic concepts behind NLP and text processing and discusses the applications across 15 industry verticals. From data sources and extraction to transformation and modelling, and classic Machine Learning to Deep Learning and Transformers, several popular applications of NLP are discussed and implemented. This book provides a hands-on and holistic guide for anyone looking to build NLP solutions, from students of Computer Science to those involved in large-scale industrial projects.

Ethnopharmacology and Drug Discovery for COVID-19: Anti-SARS-CoV-2 Agents from Herbal Medicines and Natural Products Jen-Tsung Chen 2023-10-09

This book presents a complete overview of COVID-19 and provides a series of in-depth analyses of the literature and a comprehensive discussion and perspectives on promising anti-SARS-CoV-2 agents based on the system of ethnopharmacology, which covers Chinese medicine, traditional medicines of India and Africa, Turkish folk medicine, essential oils, and some well-known medicinal plants. In this book, the current status of therapeutic strategies against COVID-19 was summarized and a perspective of potential options for the future was proposed. Based on ethnopharmacology, some well-established traditional herbal formulations and bioactive compounds with anti-virus activity were repurposed for managing COVID-19 and post-illness, including neurological disorders and kidney illness. Using drug discovery tools, promising immune enhancers were explored from phytochemicals against SARS-CoV-2. Nutraceuticals from dietary plants, spices, and fruits with anti-virus and antioxidant activities were recommended to prevent infection or severe illness caused by emerging variants. With the aid of systems pharmacology, researchers have gained insights into possible molecular mechanisms of anti-SARS-CoV-2 activity and have predicted a range of candidate compounds from medicinal plants to combat COVID-19. This book explores the current knowledge of drug discovery and ethnopharmacology for managing coronavirus diseases. The content proved the anti-SARS-CoV-2 activity from natural products and traditional herbal medicines. It contributes to the management of global public health and fits the goal of establishing "Good Health and Well-Being," which is one of "The Sustainable Development Goals (SDGs) 2030".

AmGov Christine Barbour 2023-03-14 *AmGov: Long Story*

Short helps students learn the nuts and bolts of American Government. Author Christine Barbour responds to the need for quick studying and skimming with ten succinct chapters that make it easy to read, revisit, and return to content quickly. Reading aids like bullets, annotations, and arrows walk students through important facts and break up the material in short, engaging bites of information.

Model Rules of Professional Conduct American Bar Association. House of Delegates 2007 The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.

Defeating Big Government Socialism Newt Gingrich 2022-07-12 In this national bestseller, former Speaker Newt Gingrich reveals how Big Government Socialism is crippling America—and offers strategies and insights for everyday citizens to overcome its influence. In communities across our country, Americans are debating Critical Race Theory, vaccine mandates, tax increases, rising inflation, online censorship, and a host of other important issues. We have serious decisions to make about the future of our nation. Do we want big government, or limited government? Do we want to work hard and keep what we earn, or do we want government to decide how our money is spent? Do we want our children to learn how to think in school, or be told what to think? Do we want to make our own decisions about health care, or should the federal government dictate our treatments? Should American companies compete on a level playing field, or should Washington decide who wins and loses? Speaker Gingrich analyzes these questions, describes the polling that shows what the American Majority wants, and illustrates how we can create a safer, more prosperous, and secure future for America. In *Defeating Big Government Socialism*, best-selling author and former House Speaker Newt Gingrich explains how Americans must confront Big Government Socialism, which has taken over the modern Democratic Party, big business, news media, entertainment, and academia. He also offers strategies and insights for everyday citizens to save America's future and ensure it remains the greatest nation on earth.

Renewable Energy - Volume 1: Solar, Wind, and Hydropower Abdul Ghani Olabi 2023-04-29 *Renewable Energy - Volume 1: Solar, Wind, and Hydropower: Definitions, Developments, Applications, Case Studies, and Modelling and Simulation* is a comprehensive resource for those wanting an authoritative volume on the significant aspects of these rapidly growing renewable technologies. Providing a structured approach to the emerging technologies and advances in the implementation of solar, wind and hydro energy, the book offers the most requested and desirable practical elements for the renewable industry. Sections cover definitions, applications, modeling and analysis through case study and example. This coordinated approach allows for standalone, accessible, and functioning chapters dedicated to a particular energy source, giving researchers and engineers an important and unique consolidated source of information on all aspects of these state-of-the-art fields. Includes in-depth and up-to-date explanations for the latest developments in

Solar, Wind and Hydropower Presents a uniquely, thematically arranged book with structured content that is easily accessible and usable Provides extensively illustrated and supported content, including multimedia components like short videos and slideshows for greater examples and case studies

Human Resource Management Talya Bauer 2023-09-04 Human resources is rapidly evolving into a data-rich field but with big data comes big decisions. The best companies understand how to use data to make strategic workforce decisions and gain significant competitive advantage. *Human Resource Management: People, Data, and Analytics, Second Edition* by Talya Bauer, Berrin Erdogan, David Caughlin, and Donald Truxillo introduces students to the fundamentals of talent management with integrated coverage of analytics in every chapter. Features tied to SHRM competencies and data exercises give students hands-on opportunities to practice the analytical and decision-making skills they need to excel in today's job market. Whether your students are future managers or future HR professionals, they will learn best practices for managing talent across the lifecycle in the changing workplace.

Hungary International Monetary 2023-02-03 While the economy was recovering from the COVID-crisis, a succession of shocks and loose fiscal policy intensified inflation and fueled a large external deficit. Appropriately, the central bank significantly tightened monetary policy and the government plans a large fiscal adjustment. However, regulatory measures undermine the tighter fiscal and monetary policy mix. Growth is expected to slow sharply with still-elevated inflation and sizable risks can worsen the outlook.

Meteors and How to Observe Them Robert Lunsford 2009-02-19 In this era of high-tech instruments, meteor observing is the one facet of astronomy that needs nothing more than your naked eye. Meteors can be easily seen without the aid of cameras, binoculars, or telescopes. Just find a comfortable chair and lie back and watch for the surprises that await high above you. It is a great way to involve the family in science where everyone is active at the same time, not waiting to take turns at the eyepiece. The kids especially enjoy the hunt for "shooting stars," oohing and aahing at each streak of light that crosses the sky. While gazing upwards, it is also a great way to get more familiar with the sky by learning the constellations and seeing if you can see the warrior among the stars of Orion or the scorpion among the stars of Scorpius. Until just recently, one could simply go outside and watch for meteors from his or her yard. Unfortunately, humankind's fear of the dark and the widespread use of lighting as advertisement have lit the nighttime scene in urban areas so that only the brightest stars are visible. Serious meteor observing under such conditions is nearly impossible as the more numerous faint meteors are now lost in the glare of urban skies. Today, a serious meteor observing session entails organizing an outing to a country site where the stars can be seen in all their glory and meteors of all magnitudes can be viewed.

Schematron Erik Siegel 2022-10-25 *Schematron* is a validation language that checks XML documents against business rules. It extends the validation provided by languages such as Document Type Definitions (DTD), W3C XML Schema, and RELAX NG, giving you the ability to check your XML documents for compliance with rules that can be difficult, if not impossible, to check with the other validation languages. *Schematron: A language for validating XML* is aimed at programmers and others who process XML. It explains the language in detail along with many examples. Anyone who uses Schematron or who would like to begin using it will find a wealth of information in this book.