

2021/09

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Reviews of National Policies for Education Quality and Equity of Schooling in the German-speaking Community of Belgium OECD 2022-03-15 The German-speaking Community of Belgium is in the process of developing an overall vision for its education system (the "Gesamtvision Bildung") to guide reforms across the education sector for greater quality and equity. To support this process, the OECD review offers an independent analysis of the German-speaking Community's school system and assesses the system's strengths and challenges from an international perspective.

Risk Factors for Cardiovascular Disease Johnny Chahine 2022-04-06 Risk Factors for Cardiovascular Disease raises awareness about the importance of early recognition and prevention of modifiable cardiovascular risk factors. Some non-modifiable factors, like diabetes, can even be impacted by lifestyle modification (like weight loss) early in the disease. This book also describes cardiovascular risk factors in different patient populations and work settings.

Register of Commissioned and Warrant Officers of the United States Navy and Marine Corps and Reserve Officers on Active Duty

SQL in a Nutshell Kevin Kline 2022-06-14 For programmers, analysts, and database administrators, this Nutshell guide is the essential reference for the SQL language used in today's most popular database products. This new fourth edition clearly documents SQL commands according to the latest ANSI/ISO standard and details how those commands are implemented in Microsoft SQL Server 2019 and Oracle 19c, as well as in the MySQL 8, MariaDB 10.5, and PostgreSQL 14 open source database products. You'll also get a concise overview of the relational database management system (RDBMS) model and a clear-cut explanation of foundational RDBMS concepts--all packed into a succinct, comprehensive, and easy-to-use

format. Sections include: Background on the relational database model, including current and previous SQL standards Fundamental concepts necessary for understanding relational databases and SQL commands An alphabetical command reference to SQL statements, according to the SQL:2016 ANSI standard The implementation of each command by MySQL, Oracle, PostgreSQL, and SQL Server An alphabetical reference of the ANSI SQL:2016 functions and constructs as well as the vendor implementations Platform-specific functions unique to each implementation

Yearbook of Astronomy 2021 Brian Jones 2020-10-31 Maintaining its appealing style and presentation, the Yearbook of Astronomy 2021 contains comprehensive jargon-free monthly sky notes and an authoritative set of sky charts to enable backyard astronomers and sky gazers everywhere to plan their viewing of the year's eclipses, comets, meteor showers, and minor planets as well as detailing the phases of the moon and visibility and locations of the planets throughout the year. To supplement all this is a variety of entertaining and informative articles, a feature for which the Yearbook of Astronomy is known. In the 2021 edition the reader is presented with articles covering a wide range of topics including Male Family Mentors for Women in Astronomy, Henrietta Swan Leavitt and Her Work, Solar Observing, Obsolete Constellations, Lunar Volcanism, Pages From the Past: Collecting Vintage Astronomy Books, M?ori Astronomy in Aotearoa-New Zealand and others. In addition to the above is the first in a series of articles entitled "Mission to Mars: Countdown to Building a Brave New World" scheduled to appear in the Yearbook of Astronomy throughout the 2020s. These articles will keep the reader fully up to date with the ongoing investigations, research and preparations that are already underway, as well as those in the planning phase, all of which are geared towards sending a manned mission to Mars at or around the end of the decade. We are at the start of what promises to be an exciting journey. The Yearbook of Astronomy made its first appearance way back in 1962,

shortly after the dawning of the Space Age. Now well into its sixth decade of production, the Yearbook is rapidly heading for its Diamond Jubilee edition in 2022. It continues to be essential reading for anyone lured and fascinated by the magic of astronomy and who has a desire to extend their knowledge of the Universe and the wonders it hosts. The Yearbook of Astronomy is indeed an inspiration to amateur and professional astronomers alike, and warrants a place on the bookshelves of all stargazers and watchers of the Universe.

SEASONS, EASTER AND ASTRONOMICAL MOTIONS Pier Paolo Ricci 2013-11 This book, the last of the series dedicated to the solar system, includes various aspects of different kinds of planets during their evolution over the centuries, like the seasons, the length of the day, the precession, the orbital elements of the planets, the date of Easter and much more. A chapter is also dedicated to the transits and occultations visible to the other planets. This is not a technical and difficult to read manual, but a complete and very detailed description of what the sky gives us throughout our lives, so each table is ready for use, and each reported event will be easily visible to the naked eye or possibly with a simple pair of binoculars. The book is for stargazing astronomers and professionals. Questo libro, l'ultimo della serie dedicata al sistema solare, include vari aspetti di diversa natura dei pianeti affrontati nella loro evoluzione nel corso dei secoli, come le stagioni, la durata del giorno, la precessione, gli elementi orbitali dei pianeti, la data della Pasqua e ta

Southeast Asian Affairs 2022 Daljit Singh 2022-04-14 "Southeast Asian Affairs, first published in 1974, continues today to be required reading for not only scholars but the general public interested in in-depth analysis of critical cultural, economic and political issues in Southeast Asia. In this annual review of the region, renowned academics provide comprehensive and stimulating commentary that furthers understanding of not only the region's dynamism but also of its tensions and conflicts. It is a must read." – Suchit Bunbongkarn, Emeritus Professor, Chulalongkorn University "Now in its forty-ninth edition, Southeast Asian Affairs offers an indispensable guide to this fascinating region. Lively, analytical, authoritative, and accessible, there is nothing comparable in quality or range to this series. It is a must read for academics, government officials, the business community, the media, and anybody with an interest in contemporary Southeast Asia. Drawing on its unparalleled network of researchers and commentators, ISEAS is to be congratulated for producing this major contribution to our understanding of this diverse and fast-changing region, to a consistently high standard and in a timely manner." – Hal Hill, H.W. Arndt Professor of Southeast Asian Economies, Australian National University

SQL Pocket Primer Oswald Campesato 2022-03-15 As part of the best-selling Pocket Primer series, this book is primarily for data scientists and machine learning engineers who want to expand their current knowledge of SQL using MySQL as the primary RDBMS. It includes Python-based code samples to access data from a

MySQL table in a Pandas data frame and Java-based code samples for accessing data in a MySQL database, along with XML documents and JSON documents. The book also introduces NoSQL, presents an overview of MongoDB, and SQLite--an open-source RDBMS available on mobile devices. The final chapter of the book covers a diverse set of miscellaneous topics, such as normalization, schemas, database optimization, and performance. Numerous code samples and listings are included to support myriad topics. Companion files with source code and figures are available from the publisher. FEATURES: Covers extensive topics related to SQL, using MySQL as the primary RDBMS Introduces NoSQL, presents an overview of MongoDB, and SQLite--an open-source RDBMS available on mobile devices Features companion files with source code and figures from the book

Mongolia: 2021 Article IV Consultation-Press Release; Staff Report; and Statement by the Executive Director for Mongolia International Monetary Fund. Asia and Pacific Dept 2021-11-29 A strong export-led recovery is underway. Despite early actions and a successful vaccination campaign, the pandemic is lingering in Mongolia as positivity rates remain high and borders largely closed. An export-led recovery which began in mid-2020, is gathering steam due to booming prices for Mongolia's exports. Nevertheless, domestic demand, labor markets and the business sector remain weak. Policies were appropriately supportive during the pandemic. However, large, untargeted and continuing fiscal, quasi-fiscal and financial forbearance measures legislated by Parliament have heightened macrofinancial vulnerabilities: public debt has sharply increased, bank balance sheets have further weakened, and the Bank of Mongolia's (BOM) operational independence has been compromised. On the plus side, external and fiscal buffers have been built, helped by the 2021 IMF SDR allocation of US\$98.3 million (95.8 percent of quota), and the rollover of large external liabilities has increased policy space.

Sustainable Fashion Management Claudia E. Henninger 2022-07-29 This book provides a holistic and accessible approach to sustainable fashion management. It offers an interdisciplinary and practical outlook, combining theory with practical application from a management perspective and underpinned by the Sustainable Development Goals throughout. The book helps students to gain a better understanding of what sustainable fashion is and how it is implemented across the fashion industry, through business model innovations, innovative designs, new technology and digital approaches, and material innovations. Global case studies are employed throughout each chapter, including fashion companies and events of all sizes, alongside other pedagogical features to aid learning, including key learning points, chapter objectives, and textboxes explaining key terminology. This is an essential textbook for those investigating sustainable fashion, whether from a design or management perspective, providing the knowledge and tools for a future career. It is

designed to serve Fashion Business and Management, Fashion Marketing, Fashion Buying and Merchandising and Fashion Technology courses, at all levels, and will also be valuable reading for those already working within the fashion industry and studying for professional qualifications. Online resources include chapter-by-chapter PowerPoint slides and a test bank.

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.

Mansions of the Moon: A Lunar Zodiac for Astrology and Magic 2nd Edition with 2019-2033 Mansion Ephemeris Christopher Warnock

Colour your life with relationships Johan Smith 2022-01-01 Take a few moments and reflect on some of the greatest highlights and some of the most precious moments in your life. The writer is convinced that most of these recollections have something to do with people, people with whom you enjoy a warm, quality relationship. Why is he so convinced? Because life is relationships. God's DNA is love. He is the God of grace and community. This is who He is and what He does. It is part and parcel of the very nature of God to constantly share Himself with His creation and with all of us. In this wonderful book Johan Smith unearths deep biblical truths about the essence of relationships. He shows us that God is deeply relational, therefore, we need to follow in his footsteps and become passionate about his kind of relationships again. Johan guides us masterfully how to grow and nurture such relationships with God and others in this must-read book!

Food issues Miriam Castorina 2022-04-28 Food issues. Interdisciplinary Studies on Food in Modern and Contemporary East Asia concentrates on the relationship among food, culture, literature, and language in a comparative, transcultural, or literary perspective. The contributions investigate these aspects from different approaches: historical, sociological, anthropological, religious, linguistic, and want to deepen issues such as the symbolic value of food; food as an essential element for the construction of individual identity and a sign of belonging to a community; food as an intercultural medium; food as language and the language of food.

The articles included in the volume are organized in a Japanese and a Chinese section and use different approaches within humanities disciplines to explore topics ranging from classical and contemporary East Asian literature to present-day issues, focusing on Food Culture and its declinations.

Better Business Better Future Elisabet Lagerstedt 2022-01-01 An excellent read for entrepreneurs, corporate business leaders, board members, and strategists aiming to future-proof their business by integrating sustainability into the very core. This book offers a way forward, helps you understand the Sustainability Revolution, and provides valuable insights into the journeys and strategic choices of sustainability trailblazers such as Patagonia, Interface, Ørsted, Unilever, IKEA, Oatly, and others. Because you are not the first company to discover the potential in doing well by doing good, or as William Gibson said: "The future is already here - it's just not very evenly distributed". Still, many wicked problems urgently need innovative solutions. Solutions that the world of business is particularly well equipped to address through the ingenuity, creativity, collaboration, and resources that it can so often call forth more effectively and efficiently than other human organizations. Here and now, this requires a move beyond business as usual and a transformation into Better Business.

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Heroic Faith Arielle Del Turco 2021-11-24 From Asia to Africa, from the Middle East to Europe and beyond, the global persecution of Christians becomes more ominous with every passing year. Heroic Faith takes a close look at the tragic circumstances Christians face due to dangerous and sometimes deadly opposition to their faith in Jesus Christ. The book's true stories of courage, persistence and faithfulness offer inspiration and hope. Heroic Faith also provides insights into the ideologies that lie behind hostility and persecution, what steps the U.S. government might take to offer assistance, and how readers can best respond to the struggles of the faithful.

Proceedings of Seventh International Congress on Information and Communication Technology Xin-She Yang 2022-08-27 This book gathers selected high-quality research papers presented at the Seventh International Congress on Information and Communication Technology, held at Brunel University, London, on February 21-24, 2022. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IoT) and e-mining. Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies. The work is presented in four volumes.

Recent Trends in Communication and Intelligent Systems Aditya Kumar Singh Pundir 2022-05-24 This book presents best selected research papers presented at the Third International Conference on Recent Trends in Communication and Intelligent Systems (ICRTCIS 2021), organized by Arya College of Engineering and IT, Jaipur, on 22-23 October 2021. It discusses the latest technologies in communication and intelligent systems, covering various areas of communication engineering, such as signal processing, VLSI design, embedded systems, wireless communications, and electronics and communications in general. Featuring work by leading researchers and technocrats, the book serves as a valuable reference resource for young researchers and academics as well as practitioners in industry.

Visual Ethics Paul Martin Lester 2022-04-01 An indispensable guide to visual ethics, this book addresses the need for critical thinking and ethical behavior among students and professionals responsible for a variety of mass media visual messages. Written for an ever-growing discipline, authors Paul Martin Lester, Stephanie A. Martin, and Martin Rodden-Smith give serious ethical consideration to the complex field of visual communication. The book covers the definitions and uses of six philosophies, analytical methods, cultural awareness, visual reporting, documentary, citizen journalists, advertising, public relations, typography, graphic design, data visualizations, cartoons, motion pictures, television, computers and the web, augmented and virtual reality, social media, the editing process, and the need for empathy. At the end of each chapter are case studies for further analysis and interviews with thoughtful practitioners in each field of study, including Steven Heller and Nigel Holmes. This second edition has also been fully revised and updated throughout to reflect on the impact of new and emerging technologies. This book is an important resource for students of photojournalism, photography, filmmaking, media and communication, and visual communication, as well as professionals working in these fields.

Handbook of Research on Integrating ICTs in STEAM Education Xefteris, Stefanos 2022-05-27 Modern society gives great importance to scientific and technological literacy, development of "21st century skills," and creating individuals who are not passive users of ICT tools but active thinkers and even tinkerers. The learning process is thus constantly evolving to facilitate the acquisition of such skills, such as setting goals and making evidence-based decisions, thinking critically, and solving problems while efficiently managing time as well as using technology, cooperating ethically, and communicating effectively. STEAM is the approach to learning that uses concepts from natural sciences, technology, engineering, arts, and mathematics to foster critical thinking, computational and design thinking, as well working effectively together, mimicking the process followed by scientists. The end goal is engaged and motivated students who participate in experiential and inquiry-based learning in fun, immersive environments that facilitate learning through a creative process. The

Handbook of Research on Integrating ICTs in STEAM Education includes current research focusing on the development of STEAM and ICT educational practices, tools, workflows, and frames of operation that encourage science skills, but also skills related to the arts and humanities such as creativity, imagination, and reflection on ethical implications. Covering topics such as early childhood education, machine learning education, educational robotics, and web-based simulations, this major reference work is an essential resource for engineers, educators of both K-12 and higher education, education administration, libraries, pre-service teachers, computer scientists, researchers, and academics.

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Programming Languages and Systems Ilya Sergey 2022-03-28 This open access book constitutes the proceedings of the 31st European Symposium on Programming, ESOP 2022, which was held during April 5-7, 2022, in Munich, Germany, as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2022. The 21 regular papers presented in this volume were carefully reviewed and selected from 64 submissions. They deal with fundamental issues in the specification, design, analysis, and implementation of programming languages and systems.

Proceeding Jakarta Geopolitical Forum V / 2021 Prof. Dr. Ir. Bondan Tiara Sofyan, M.Si. dkk 2021-10-21 Jakarta Geopolitical Forum V/ 2021 (JGF V/2021) organized by Lemhannas RI (National Resilience Institute of the Republic of Indonesia) on 21-22 October 2021. The forum is held annually and aimed to explore the implementation of critical thinking and the development of new ideas and strategic thinking which are the annual routine agenda of the Deputy for Strategic Studies of Lemhannas RI based on its main tasks and functions. Today's global civilization is evolving to determine its identity and is rapidly reaching a tipping point that will decide whether it will lead to a new or divided civilization. The vulnerability of mankind is a significant threat to the development of civilization in the future. An increasingly interconnected global civilization will emerge as a result of the interwoven culture of nations around the world and vice versa. The question that needs attention is whether Indonesia is able to adapt to the changes in existing civilizations or we can prevent various unexpected civilization possibilities in the future as well as the capability of Indonesia to bridge the gap between civilizations. Based on that, the theme of JGF V/ 2021 is "Culture and Civilization: Humanity at the Crossroads". The objectives to be achieved in organizing JGF V/2021 are to understand the form of future civilization, especially the socio-culture structure of the world's humans, to find out how far the culture and civilization of a nation is maintained in the midst of changes that occur, the mindset to adapt to the new

civilization environment and knowing the extent of the correlation between the influence and change of civilization conveyed by world geopolitical experts from various countries.

E-commerce During Covid: Stylized Facts from 47 Economies Alberto Cavallo 2022-01-28 We study e-commerce across 47 economies and 26 industries during the COVID-19 pandemic using aggregated and anonymized transaction-level data from Mastercard, scaled to represent total consumer spending. The share of online transactions in total consumption increased more in economies with higher pre-pandemic e-commerce shares, exacerbating the digital divide across economies. Overall, the latest data suggest that these spikes in online spending shares are dissipating at the aggregate level, though there is variation across industries. In particular, the share of online spending in professional services and recreation has fallen below its pre-pandemic trend, but we observe a longer-lasting shift to digital in retail and restaurants.

Review of FAO's country programme in Eritrea 2017–2021 Food and Agriculture Organization of the United Nations 2021-12-08 In 2020, the FAO Office of Evaluation (OED) backstopped the FAO Eritrea Office in the review of the FAO Country Programme. This is the first review of the Eritrea Country Programme and covers the Country Programming Framework (CPF) period from 2017 to 2021. The review assessed FAO's strategic positioning in Eritrea, the programme results and provided strategic recommendations on how FAO can better realign its programme to evolving needs. The review found that while the Ministry of Agriculture and the Ministry of Marine Resources fully participated in the formulation of the CPF, the Ministry of Land, Water and the Environment's participation was limited. Overall, the results are unequal across the three priority areas of the CPF. The review makes thirteen recommendations. This includes FAO enhancing its cooperation with the Ministry of Marine Resources and the Ministry of Land, Water and the Environment. More specifically, both ministries should also be involved in the preparation of the next CPF.

Auditing, Loose-Leaf Raymond N. Johnson 2019-04-16 The explosion of data analytics in the auditing profession demands a different kind of auditor. *Auditing: A Practical Approach with Data Analytics* prepares students for the rapidly changing demands of the auditing profession by meeting the data-driven requirements of today's workforce. Because no two audits are alike, this course uses a practical, case-based approach to help students develop professional judgement, think critically about the auditing process, and develop the decision-making skills necessary to perform a real-world audit. To further prepare students for the profession, this course integrates seamless exam review for successful completion of the CPA Exam.

Conservative Government Penal Policy 2015-2021 Christopher David Skinns 2022-08-29 This book interrogates Conservative government penal policy for adult and young adult offenders in England and Wales between 2015 and 2021. Government penal policy is shown to have been often ineffective and costly, and to

have revived efforts to push the system towards a disastrous combination of austerity, outsourcing and punishment that has exacerbated the penal crisis. This investigation has meant touching on topical debates dealing with the impact of resource scarcity on offenders' experiences of the penal system, the impact of an increasing emphasis on punishment on offenders' sense of justice and fairness, the balance struck between infection control and offender welfare during the government handling of the SARS-CoV-2 pandemic and why successive Conservative governments have intransigently pursued a penal policy that has proved crisis-exacerbating. The overall conclusion reached is that penal policy is too important to be left to governments alone and needs to be recalibrated by a one-off inquiry, complemented by an on-going advisory body capable of requiring governments to 'explain or change'. The book is distinctive in that it provides a critical review of penal policy change, whilst combining this with insights derived from the sociological analysis of penal trends.

Big American Problems Sam Wittke 2022-01-27 In *Big American Problems*, Sam Wittke examines the link between various types of politics and the spiritual realities of God and human sinfulness, as laid out in the scriptures. In an increasing atmosphere of division, enmity, confusion, and authoritarianism in our American cultural moment, it is critical for Christians to think through these things through a realistic, biblical framework. *Big American Problems* hopes to tell the truth about our unprecedented American moment comprehensively and in a simplified manner. The conclusions herein are only meant to be weighed in proportion to the more immense matter of the Gospel, but they do provide a startling glimpse into what happens when the Gospel is rejected by a society.

CockroachDB: The Definitive Guide Guy Harrison 2022-04-08 Get the lowdown on CockroachDB, the elastic SQL database built to handle the demands of today's data-driven world. With this practical guide, software developers, architects, and DevOps teams will discover the advantages of building on a distributed SQL database. You'll learn how to create applications that scale elastically and provide seamless delivery for end users while remaining exceptionally resilient and indestructible. Written from scratch for the cloud and architected to scale elastically to handle the demands of cloud native and open source, CockroachDB makes it easier to build and scale modern applications. If you're familiar with distributed systems, you'll quickly discover the benefits of strong data correctness and consistency guarantees as well as optimizations for delivering ultralow latencies to globally distributed end users. With this thorough guide, you'll learn how to: Plan and build applications for distributed infrastructure, including data modeling and schema design Migrate data into CockroachDB Read and write data and run ACID transactions across distributed infrastructure Optimize queries for performance across geographically distributed replicas Plan a CockroachDB deployment for resiliency across single-region and multiregion clusters Secure, monitor, and optimize your CockroachDB

deployment

Arihant CBSE Informatics Practices Term 2 Class 12 for 2022 Exam (Cover Theory and MCQs) Debapriya Chakraborty 2021-11-20 With the newly introduced 2 Term Examination Pattern, CBSE has eased out the pressure of preparation of subjects and cope up with lengthy syllabus. Introducing Arihant's CBSE TERM II – 2022 Series, the first of its kind that gives complete emphasis on the rationalized syllabus of Class 9th to 12th. The all new “CBSE Term II 2022 – Informatics Practices” of Class 11th provides explanation and guidance to the syllabus required to study efficiently and succeed in the exams. The book provides topical coverage of all the chapters in a complete and comprehensive manner. Covering the 50% of syllabus as per Latest Term wise pattern 2021-22, this book consists of: 1. Complete Theory in each Chapter covering all topics 2. Case-Based, Short and Long Answer Type Question in each chapter 3. Coverage of NCERT, NCERT Exemplar & Board Exams’ Questions 4. Complete and Detailed explanations for each question 5. 3 Practice papers based on the entire Term II Syllabus. Table of Content MySQL Functions and Querying using SQL, Aggregate Functions and Querying, Computer Networks, Introduction to Internet and Web, Practice Papers (1-3).

Comete – Comets Pier Paolo Ricci 2013-05-30 Questo libro, il nono di una serie di dieci, rappresenta una estesa trattazione di quanto presente sul mio sito riguardo le comete ed i fenomeni ad esse correlate. Vengono qui esaminati gli elementi orbitali delle comete periodiche e non periodiche, con le date dei perielii per decenni, le magnitudini, l'evoluzione degli elementi, le classiche effemeridi, ecc. Questo non e un manuale tecnico e di difficile lettura, ma una descrizione completa e molto dettagliata su quello che il cielo ci offre durante la nostra vita, quindi ogni tabella e pronta all'uso ed ogni evento riportato sara facilmente visibile ad occhio nudo od eventualmente con un modestissimo binocolo. Un'opera per astrofili, per astronomi, per professionisti o semplici appassionati. This book, the ninth in a series of ten, is an extended discussion of that on my website about the comets.

Podman for DevOps Alessandro Arrichiello 2022-04-28 Build, deploy, and manage containers with the next-generation engine and tools Key Features Discover key differences between Docker and Podman Build brand new container images with Buildah, the Podman companion Learn how to manage and integrate containers securely in your existing infrastructure Book Description As containers have become the new de facto standard for packaging applications and their dependencies, understanding how to implement, build, and manage them is now an essential skill for developers, system administrators, and SRE/operations teams. Podman and its companion tools Buildah and Skopeo make a great toolset to boost the development, execution, and management of containerized applications. Starting with the basic concepts of containerization and its

underlying technology, this book will help you get your first container up and running with Podman. You'll explore the complete toolkit and go over the development of new containers, their lifecycle management, troubleshooting, and security aspects. Together with Podman, the book illustrates Buildah and Skopeo to complete the tools ecosystem and cover the complete workflow for building, releasing, and managing optimized container images. Podman for DevOps provides a comprehensive view of the full-stack container technology and its relationship with the operating system foundations, along with crucial topics such as networking, monitoring, and integration with systemd, docker-compose, and Kubernetes. By the end of this DevOps book, you'll have developed the skills needed to build and package your applications inside containers as well as to deploy, manage, and integrate them with system services. What you will learn Understand Podman's daemonless approach as a container engine Run, manage, and secure containers with Podman Discover the strategies, concepts, and command-line options for using Buildah to build containers from scratch Manage OCI images with Skopeo Troubleshoot runtime, build, and isolation issues Integrate Podman containers with existing networking and system services Who this book is for The book is for cloud developers looking to learn how to build and package applications inside containers and system administrators who want to deploy, manage, and integrate them with system services and orchestration solutions. This book provides a detailed comparison between Docker and Podman to aid you in learning Podman quickly.

21st Century Investing William Burckart 2021-04-13 Two experienced and visionary authors show how institutions and individuals can go beyond conventional and sustainable investing to address complex problems such as income inequality and climate change on a deep, systemic level. It's time for a new way to think about investing, one that can contend with the complex challenges we face in the 21st century. Investment today has evolved from the basic, conventional approach of the 1950s. Investors have since recognized the importance of sustainable investment and have begun considering environmental and social factors. Yet the complexity of the times forces us to recognize and transition to a third stage of investment practice: system-level investing. In this paradigm-shifting book, William Burckart and Steve Lydenberg show how system-level investors support and enhance the health and stability of the social, financial, and environmental systems on which they depend for long-term returns. They preserve and strengthen these fundamental systems while still generating competitive or otherwise acceptable performance. This book is for those investors who believe in that transition. They may be institutions, large or small, concerned about the long-term stability of the environment and society. They may be individual investors who want their children and grandchildren to inherit a just and sustainable world. Whoever they may be, Burckart and Lydenberg

show them the what, why, and how of system-level investment in this book: what it means to manage system-level risks and rewards, why it is imperative to do so now, and how to integrate this new way of thinking into their current practice.

AI and IoT for Sustainable Development in Emerging Countries Zakaria Boulouard 2022 This book comprises a number of state-of-the-art contributions from both scientists and practitioners working in a large pool of fields where AI and IoT can open up new horizons. Artificial intelligence and Internet of Things have introduced themselves today as must-have technologies in almost every sector. Ranging from agriculture to industry and health care, the scope of applications of AI and IoT is as wide as the horizon. Nowadays, these technologies are extensively used in developed countries, but they are still at an early stage in emerging countries. *AI and IoT for Sustainable Development in Emerging Countries* Challenges and Opportunities is an invaluable source to dive into the latest applications of AI and IoT and how they have been used by researchers from emerging countries to solve sustainable development-related issues by taking into consideration the specificities of their countries. This book starts by presenting how AI and IoT can tackle the challenges of sustainable development in general and then focuses on the following axes: AI and IoT for smart environment and energy Industry 4.0 and intelligent transportation A vision towards an artificial intelligence of medical things AI, social media, and big data analytics. It aspires to provide a relevant reference for students, researchers, engineers, and professionals working in these particular areas or those interested in grasping its diverse facets and exploring the latest advances on their respective fields and the role of AI and IoT in them.

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Time Series Analysis with Python Cookbook Tarek A. Atwan 2022-06-30 Perform time series analysis and forecasting confidently with this Python code bank and reference manual Key Features Explore forecasting and anomaly detection techniques using statistical, machine learning, and deep learning algorithms Learn different techniques for evaluating, diagnosing, and optimizing your models Work with a variety of complex data with trends, multiple seasonal patterns, and irregularities Book Description Time series data is everywhere, available at a high frequency and volume. It is complex and can contain noise, irregularities, and multiple patterns, making it crucial to be well-versed with the techniques covered in this book for data preparation, analysis, and forecasting. This book covers practical techniques for working with time series data,

starting with ingesting time series data from various sources and formats, whether in private cloud storage, relational databases, non-relational databases, or specialized time series databases such as InfluxDB. Next, you'll learn strategies for handling missing data, dealing with time zones and custom business days, and detecting anomalies using intuitive statistical methods, followed by more advanced unsupervised ML models. The book will also explore forecasting using classical statistical models such as Holt-Winters, SARIMA, and VAR. The recipes will present practical techniques for handling non-stationary data, using power transforms, ACF and PACF plots, and decomposing time series data with multiple seasonal patterns. Later, you'll work with ML and DL models using TensorFlow and PyTorch. Finally, you'll learn how to evaluate, compare, optimize models, and more using the recipes covered in the book. What you will learn Understand what makes time series data different from other data Apply various imputation and interpolation strategies for missing data Implement different models for univariate and multivariate time series Use different deep learning libraries such as TensorFlow, Keras, and PyTorch Plot interactive time series visualizations using hvPlot Explore state-space models and the unobserved components model (UCM) Detect anomalies using statistical and machine learning methods Forecast complex time series with multiple seasonal patterns Who this book is for This book is for data analysts, business analysts, data scientists, data engineers, or Python developers who want practical Python recipes for time series analysis and forecasting techniques. Fundamental knowledge of Python programming is required. Although having a basic math and statistics background will be beneficial, it is not necessary. Prior experience working with time series data to solve business problems will also help you to better utilize and apply the different recipes in this book.

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Asking and Answering Moritz Cordes 2021-12-10 Questions are everywhere and the ubiquitous activities of asking and answering, as most human activities, are susceptible to failure - at least from time to time. This volume offers several current approaches to the systematic study of questions and the surrounding activities and works toward supporting and improving these activities. The contributors formulate general problems for a formal treatment of questions, investigate specific kinds of questions, compare different frameworks with regard to how they regulate the activities of asking and answering of questions, and situate these activities in a wider framework of cognitive/epistemic discourse. From the perspectives of logic, linguistics, epistemology, and philosophy of language emerges a report on the state of the art of the theory of questions.

MySQL Cookbook Sveta Smirnova 2022-08-02 For MySQL, the price of popularity comes with a flood of questions from users on how to solve specific data-related issues. That's where this cookbook comes in. When you need quick solutions or techniques, this handy resource provides scores of short, focused pieces of code, hundreds of worked-out examples, and clear, concise explanations for programmers who don't have the time (or expertise) to resolve MySQL problems from scratch. In this updated fourth edition, authors Sveta Smirnova and Alkin Tezuysal provide more than 200 recipes that cover powerful features in both MySQL 5.7

and 8.0. Beginners as well as professional database and web developers will dive into topics such as MySQL Shell, MySQL replication, and working with JSON. You'll learn how to: Connect to a server, issue queries, and retrieve results Retrieve data from the MySQL Server Store, retrieve, and manipulate strings Work with dates and times Sort query results and generate summaries Assess the characteristics of a dataset Write stored functions and procedures Use stored routines, triggers, and scheduled events Perform basic MySQL administration tasks Understand MySQL monitoring fundamentals