



illustrates financial and commodity markets and analyzes the principles of advanced credit risk modeling techniques and credit derivatives pricing methods. Particular attention is given to the challenges of counterparty risk management, Credit Valuation Adjustment (CVA) and the related regulatory Basel III requirements. As a conclusion, the book provides the reader with all the essential aspects of classical and modern credit risk management and modeling. The author uses her popular columns from The Independent to explore the therapeutic process. Successful analysis, she argues, is less about following pre-formulated theory and more about being led by the experience of what is actually happening. Learn how to make both minor and major DIY repairs and improvements that will save you money! No need to hire a plumber, especially in emergencies when you need an immediate fix. This best-selling guide on plumbing will teach you everything you need to know, from understanding how plumbing systems work and fixing a leaky faucet to making renovations, soldering copper, installing fixtures, and so much more. Featuring detailed how-to diagrams, code-compliant techniques, tips on how to spot and improve outdated or dangerous materials in your home plumbing system, and so much more, this newly updated edition features new code-compliant techniques for 2021, plus a new section on air gap fittings. This book highlights both theoretical and applied advances in cellular learning automata (CLA), a type of hybrid computational model that has been successfully employed in various areas to solve complex problems and to model, learn, or simulate complicated patterns of behavior. Owing to CLA's parallel and learning abilities, it has proven to be quite effective in uncertain, time-varying, decentralized, and distributed environments. The book begins with a brief introduction to various CLA models, before focusing on recently developed CLA variants. In turn, the research areas related to CLA are addressed as bibliometric network analysis perspectives. The next part of the book presents CLA-based solutions to several computer science problems in e.g. static optimization, dynamic optimization, wireless networks, mesh networks, and cloud computing. Given its scope, the book is well suited for all researchers in the fields of artificial intelligence and reinforcement learning. This book presents theories and case studies for corporations in developed nations, including Japan, for designing strategies to maximize opportunities and minimize threats in business expansion into developing nations. The case studies featured here focus on Asia, including China and India, and use examples of Japanese manufacturers. Five case studies are provided, including Hitachi Construction Machinery and Shiseido in China and Maruti Suzuki in India. These cases facilitate the reader's understanding of the business environments in emerging economies. This volume is especially recommended for business people responsible for international business development, particularly in China and India. In addition, the book serves as a useful resource for students in graduate-level courses in international management. The key to your success is to become proficient in the 7 core characteristics of effective leadership, and to master, through understanding and implementation, a number of critical competencies associated with knowing yourself, emotional resilience, effective communication and management intelligence. This book is a self-coaching guide, based on lived experience and many years of successful coaching a diverse range of local and international clients, from business owners, executives and recently promoted supervisors. All with one common purpose ... to emerge as a transformational leader ... with the ability to make a significant difference to the future of many other people while working towards the long-term sustainability of their area of accountability. The COVID-19 pandemic has already made a global impact on what was called normality, however, it has also offered us the opportunity to create EMERGING LEADERS with effective communication skills, interpersonal awareness, the ability to lead and build trust while empowering others. This book presents the framework for anyone wishing to review their current position; hone their skills or acquire new competencies that will reduce stress and enable improved work/life balance. Mike Cameron is a life-long learner with a passion for leadership development, mentoring individuals and sharing his knowledge by writing, speaking and facilitated group sessions. With a wealth of leadership and management experience, and a real understanding of corporate governance, business principles and organisational dynamics, his professional focus is on the competencies and intelligence required to effectively deal with the management, emotional and communication challenges that confront leaders in today's hectic business environment. Mike appreciates the value of coaching existing and potential leaders through sustainable attitudinal and behavioural change. A fantastic presentation of Caterpillar's newest machines. Cat heavy machinery is known throughout the world, and this calendar is filled with examples from the versatile skid loaders up to the goliath mine trucks, dozers, scrapers, and wheel loaders. Each month also includes a cab shot of the featured machine plus an illustration with dimensions. These sensational photos are supplied from the archives of Caterpillar and feature the impressive new machines from their line. Each shot shows these powerful machines at work hauling, grading, dumping, and much more. This book discusses the birth and background of the Industrial Internet, clarifying its definition and structure, and reviewing the related development trends in China and around the globe, mainly in terms of policies, networks, platforms, security, application and standards. Lastly, it provides insights into the integration of the Industrial Internet with a series of next-gen information technologies, such as time sensitive networking, 5G, edge computing, blockchain and artificial intelligence. Intended for researchers and industrial practitioners who have been following the evolution of and trends in the Industrial Internet, the book is also a valuable reference resource for practitioners, scholars, and technical and engineering managers at various levels and in various fields. How Cool Are Penguins is a book that will introduce young children to the world of penguins. It is written and illustrated in a fun and informative way that will entertain both the young and the young at heart. This book highlights recent findings in industrial, manufacturing and mechanical engineering, and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering are discussed, including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. The book gathers selected papers presented at the 5th International Conference on Industrial Engineering (ICIE), held in Sochi, Russia in March 2019. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates. The book contains 11 chapters written by relevant scientists in the field of particle-based methods and their applications in engineering and applied sciences. The chapters cover most particle-based techniques used in practice including the discrete element method, the smooth particle hydrodynamic method and the particle finite element method. The book will be of interest to researchers and engineers interested in the fundamentals of particle-based methods and their applications. Presiden Joko Widodo (Jokowi) tegas mengumumkan bakal menyetop ekspor bauksit mentah pada Juni 2023. Mineral lainnya bakal menyusul kemudian. Meskipun Indonesia dinyatakan kalah dalam gugatan World Trade Organization (WTO) soal nikel, Jokowi berkobar menyatakan bakal melawan balik. Hasil hilirisasi nikel di dalam negeri terbukti ampuh mengerek ekonomi nasional, termasuk menggenjot geliat di daerah penghasil. Misalnya Maluku Utara, ekonominya moncer di tengah gempuran badai pandemi. Pemerintah ingin hal serupa merambat ke sektor lainnya, bauksit, tembaga, hingga timah. This book presents a comprehensive insight into the design techniques for different types of CP antenna elements and arrays In this book, the authors address a broad range of topics on circularly polarized (CP) antennas. Firstly, it introduces to the reader basic principles, design techniques and characteristics of various types of CP antennas, such as CP patch antennas, CP helix antennas, quadrifilar helix antennas (QHA), printed quadrifilar helix antennas (PQHA), spiral antenna, CP slot antennas, CP dielectric resonator antennas, loop antennas, crossed dipoles, monopoles and CP horns. Advanced designs such as small-size CP antennas, broadband, wideband and ultra-wideband CP antennas are also discussed, as well as multi-band CP antennas and dual CP antennas. The design and analysis of different types of CP array antennas such as broadband CP patch arrays, dual-band CP arrays, CP printed slot arrays, single-band and multi-band CP reflectarrays, high-gain CP waveguide slot antennas, CP dielectric resonator antenna arrays, CP active arrays, millimetre-waveband CP arrays in LTCC, and CP arrays with electronically beam-switching or beam-steering capabilities are described in detail. Case studies are provided to illustrate the design and implementation of CP antennas in practical scenarios such as dual-band Global Navigation Satellite Systems (GNSS) receivers, satellite communication mobile terminals at the S-band, Radio Frequency Identification (RFID) readers at 2.4 GHz, and Ka-band high-speed satellite communication applications. It also includes the detailed designs for a wideband Logarithmic spiral antenna that can operate from 3.4-7.7 GHz. In addition, the book offers a detailed review of the recent developments of different types of CP antennas and arrays. Presents comprehensive discussions of design techniques for different types of CP antennas: small-size CP antennas, broadband CP antennas, multi-band CP antennas and CP arrays. Covers a wide range of antenna technologies such as microstrip antennas, helix, quadrifilar helix antenna, printed quadrifilar helix antenna, dielectric resonator antennas, printed slots, spiral antennas, monopoles, waveguide slot arrays, reflectarrays, active arrays, millimetre-wave arrays in LTCC, electronically beam-switching arrays and electronically beam-steerable arrays. Reviews recent developments in different types of CP antennas and arrays, reported by industries, researchers and academics worldwide. Includes numerous case studies to demonstrate how to design and implement different CP antennas in practical scenarios. Provides both an introduction for students in the field and an in-depth reference for antenna/RF engineers who work on the development of CP antennas. Circularly Polarized Antennas will be an invaluable guide for researchers in R&D organizations; system engineers (antenna, telecom, space and satellite); postgraduates studying the subjects of antenna and propagation, electromagnetics, RF/microwave/millimetre-wave systems, satellite communications and so on; technical managers and professionals in the areas of antennas and propagation.

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