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This book describes the three gasotransmitters nitric oxide (NO), hydrogen sulphide (H₂S) and carbon monoxide (CO) and their function as intracellular signalling molecules in plants. Common properties are shared by NO, H₂S and CO: they are beneficial at low concentrations but hazardous in higher amounts; they are small molecules of gas; they can freely cross cell membranes; their effects do not rely on receptors; they are generated enzymatically and their production is regulated; their functions can be mimicked by exogenous application; and their cellular effects may or may not be mediated by second messengers, but have specific cellular and molecular targets. In plants, many aspects of the biology of gasotransmitters remain completely unknown and generate intriguing questions, which will be discussed in this book.

This book represents the seventeenth edition of the leading IMPORTANT reference work MAJOR COMPANIES OF THE ARAB WORLD. All company entries have been entered in MAJOR COMPANIES OF THE ARAB WORLD absolutely free of charge. This volume has been completely updated compared to last charge, thus ensuring a totally objective approach to the year's edition. Many new companies have also been included information given. this year. Whilst the publishers have made every effort to ensure that the information in this book was correct at the time of press, no The publishers remain confident that MAJOR COMPANIES responsibility or liability can be accepted for any errors or OF THE ARAB WORLD contains more information on the omissions, or for the consequences thereof. major industrial and commercial companies than any other work. The information in the book was submitted mostly by the ABOUT GRAHAM & TROTMAN LTD companies themselves, completely free of charge. To all those Graham & Trotman Ltd, a member of the Kluwer Academic companies, which assisted us in our research operation, we Publishers Group, is a publishing organisation specialising in express grateful thanks. To all those individuals who gave us the research and publication of business and technical help as well, we are similarly very grateful. information for industry and commerce in many parts of the world. Over the last few years, interest in the industrial applications of AI and learning systems has surged. This book covers the recent developments and provides a broad perspective of the key challenges that characterize the field of Industry 4.0 with a focus on applications of AI. The target audience for this book includes engineers involved in automation system design, operational planning, and decision support. Computer science practitioners and industrial automation platform developers will also benefit from the timely and accurate information provided in this work. The book is organized into two main sections comprising 12 chapters overall: •Digital Platforms and Learning Systems •Industrial Applications of AI

The incredible true story of Tiger Woods's dramatic comeback following his humbling and very public personal, physical, and professional setbacks. One publicly imploded marriage. Two car accidents. Eight surgeries. And now, a miracle of hard work and storied talent: five Masters wins. Once hailed as "the greatest closer in history" before he fell further than any beloved athlete in America's memory, Tiger swung at the world's wildest expectations and beat the skeptics with his April 2019 Masters championship. *Roaring Back* traces his road to Augusta and the improbable, phenomenal comeback of one of the greatest golfers in history. New York Times—bestselling author Curt Sampson details the highs and lows of Woods's career in three gripping acts. From his startling loss at the 2009 PGA Championship, detrimental obsession with his swing, and that infamous night involving an ex-wife and a nine-iron...to adoring fans and lucrative sponsors turning their backs, exclusive interviews with past instructors and PGA tour peers, and an arrest complete with a toxicology report . . . finally to Tiger coming from behind for his fifth green jacket as the crowd rumbled in Georgia, and how his comeback rivals those of the most dramatic in his sport. Sampson also places Woods's defeats and triumphs in the context of historic comebacks by other notable golfers like Ben Hogan, Skip Alexander, Aaron Siltan, and Charlie Beljan, finding the forty-three-year-old alone on the green for his trajectory of victory against all odds. As this enthralling book reveals, Tiger never doubted the perseverance of the winner in the mirror. "Sampson admirably details all the highs and lows." —Jim Nantz, CBS Sports

This book constitutes the refereed proceedings of the 16th International Conference on Mobile Web and Intelligent Information Systems, MobiWIS 2019, held in Istanbul, Turkey, in August 2019. The 23 full papers presented together with 3 short papers were carefully reviewed and selected from 74 submissions. The papers of the MobiWIS 2019 deal with areas such as: mobile apps and services; web and mobile applications; security and privacy; wireless networks and cloud computing; intelligent mobile applications; and mobile web and practical applications.

Transnational Marketing and Transnational Consumers are becoming increasingly common in today's globalizing and fast moving world of business. This book presents a fresh perspective focusing on the transnational character of organizations and firms while underlining the importance of the transnationality of marketing strategies for success. At the same time, it introduces the novel concepts of Transnational Consumers and Transnational Mobile Consumers which take into account the increasing human mobility and its implications for marketing success. This book gives flesh to the ever popular shorthand "glocal" referring to strategies thinking globally but acting locally. This is the reality of current business environment where the norm is fast mobility of goods, services, finance, and consumers.? Transnational Mobility of Consumers is of increasing importance for understanding transnational marketing. Prof. Ibrahim Sirkeci's new book, *Transnational Marketing and Transnational Consumers*, deals with this important issue in an excellent way. The book is highly recommendable for both academics and practitioners in International Marketing. Svend Hollensen University of Southern Denmark Author of 'Global Marketing' (Pearson)

Explore embedded systems pentesting by applying the most common attack techniques and patterns Key Features Learn various pentesting tools and techniques to attack and secure your hardware infrastructure Find the glitches in your hardware that can be a possible entry point for attacks Discover best practices for securely designing products Book Description Hardware pentesting involves leveraging hardware interfaces and communication channels to find vulnerabilities in a device. *Practical Hardware Pentesting* will help you to plan attacks, hack your embedded devices, and secure the hardware infrastructure. Throughout the book, you will see how a specific device works, explore the functional and security aspects, and learn how a system senses and communicates with the outside world. You will start by setting up your lab from scratch and then gradually work with an advanced hardware lab. The book will help you get to grips with the global architecture of an embedded system and sniff on-board traffic. You will also learn how to identify and formalize threats to the embedded system and understand its relationship with its ecosystem. Later, you will discover how to analyze your hardware and locate its possible system vulnerabilities before going on to explore firmware dumping, analysis, and exploitation. Finally, focusing on the reverse engineering process from an attacker point of view will allow you to understand how devices are attacked, how they are compromised, and how you can harden a device against the most common hardware attack vectors. By the end of this book, you will be well-versed with security best practices and understand how they can be implemented to secure your hardware. What you will learn Perform an embedded system test and identify security critical functionalities Locate critical security components and buses and learn how to attack them Discover how to dump and modify stored information Understand and exploit the relationship between the firmware and hardware Identify and attack the security functions supported by the functional blocks of the device Develop an attack lab to support advanced device analysis and attacks Who this book is for This book is for security professionals and researchers who want to get started with hardware security assessment but don't know where to start. Electrical engineers who want to understand how their devices can be attacked and how to protect against these attacks will also find this book useful.

Presenting ideas for how business can lead the way in deriving the good from globalisation, this book makes the case that governments and their international agencies, grouped under the umbrella of the United Nations, have failed in their attempts to rid the planet of underdevelopment and poverty.

Social, Emotional, and Psychosocial Development of Gifted and Talented Individuals: Merges the fields of individual differences, developmental psychology, and educational psychology with the field of gifted education. Provides a complete overview of the social, emotional, and psychosocial development of gifted and talented individuals. Explores multiple paradigmatic lenses and varying conceptions of giftedness. Serves as a comprehensive resource for graduate students, early career scholars, and teachers. Addresses implications for the field of gifted education and future research. This book is framed around four broad questions: (a) What is development?, (b) Are gifted individuals qualitatively different from others?, (c) Which psychosocial skills are necessary in the development of talent?, and (d) What effect does the environment have on the development of talent? Topics covered include developmental trajectories, personality development, social and emotional development, perfectionism, sensory sensitivity, emotional intensity, self-beliefs, motivation, systems perspective, psychosocial interventions, and counseling and mental health.

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This booklet examines the technical causes of control system failure by describing actual case studies. The incidents show that obvious defects could have been prevented. It is aimed at users of control systems plus designers, manufacturers and installers. The analysis of control system incidents in this publication remains unchanged from the first edition, however some minor changes in the guidance have been made in response to revisions of legislation and of relevant standards.

This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field.

Managing Innovation is an established, best-selling text for MBA, MSc and advanced undergraduate courses on innovation management, management of technology, new product development and entrepreneurship. It is also widely used by managers in both the service and manufacturing sectors. Now in its fifth edition, the text has been fully revised and is accompanied by the Innovation Portal at www.innovation-portal.info, which contains an extensive collection of additional digital resources for both lecturers and students. Features: The Research Notes and Views from the Front Line feature boxes strengthen the evidence-based and practical approach making this a must-read for anyone studying or working within innovation. The Innovation Portal at www.innovation-portal.info is an essential resource for both student and lecturer and includes the Innovation Toolkit – a fully searchable array of practical innovation tools along with a compendium of cases, activities, audio and video clips.

This unique volume on wind energy features contributions from the world's leading research and development pioneers in the field of renewable energy. It discusses advances in offshore wind technology, grid-connected systems, grid stabilization and wind turbine design and highlights. Written from an international perspective, chapters focus on the status of wind energy in various regions and countries across the globe, outlining the positive impact its implementation has had on delaying the catastrophic effects of climate change.

The First Maker-Friendly Guide to Electric Motors! Makers can do amazing things with motors. Yes, they're more complicated than some other circuit elements, but with this book, you can completely master them. Once you do, incredible new projects become possible. Unlike other books, *Motors for Makers* is 100% focused on what you can do. Not theory. Making. First, Matthew Scarpino explains how electric motors work and what you need to know about each major type: stepper, servo, induction, and linear motors. Next, he presents detailed instructions and working code for interfacing with and controlling servomotors with Arduino Mega, Raspberry Pi, and BeagleBone Black. All source code and design files are available for you to download from motorsformakers.com. From start to finish, you'll learn through practical examples, crystal-clear explanations, and photos. If you've ever dreamed of what you could do with electric motors, stop dreaming...and start making! Understand why electric motors are so versatile and how they work Choose the right motor for any project Build the circuits needed to control each type of motor Program motor control with Arduino Mega, Raspberry Pi, or BeagleBone Black Use gearmotors to get the right amount of torque Use linear motors to improve speed and precision Design a fully functional electronic speed control (ESC) circuit Design your own quadcopter Discover how electric motors work in modern electric vehicles--with a fascinating inside look at Tesla's patents for motor design and control!

Wireless sensor networks are penetrating our daily lives, and they are starting to be deployed even in an industrial environment. The research on such industrial wireless sensor networks (IWSNs) considers more stringent requirements of robustness, reliability, and timeliness in each network layer. This Special Issue presents the recent research result on industrial wireless sensor networks. Each paper in this Special Issue has unique contributions in the advancements of industrial wireless sensor network research and we expect each paper to promote the relevant research and the deployment of IWSNs.

This textbook explores the theoretical and practical aspects of managing international business operations while also dealing with multi-cultural, multi-national and global issues of managing business expansion beyond the domestic market. A second, revised edition of *Managing Internationally: Succeeding in a Culturally Diverse World*, each chapter contains up-to-date material, in-depth coverage of topics, visual aids (i.e., charts, tables, etc.), and vignettes, making this new edition engaging, visually appealing and easily accessible for students taking International Business Management courses. The contents of this textbook are separated into four parts. Part one offers introductory information on the scope and importance of international business

management as well as the social and ethical challenges. Part two covers cultural and behavioral topics. Part three discusses the strategic and operational aspects of international business management. Part four explores human resources and labor relations. To assist students, each chapter starts a preview section which includes an outline of the chapter indicating the important aspects along with a brief description of the major issues. Following the preview is a vignette that encapsulates the crux of the chapter, often presented in an amusing and engaging manner. To further help students focus on key issues, the text includes the list of useful business cases to which students can refer. To assist professors in teaching from this book, ancillary teaching materials such as sample syllabi, slides, tests and answer keys will be available for download.

The Dictionary of Auditing is a one-stop resource for key auditing terminology, concepts, and processes essential to auditors and of increasing interest to those that work with them. Covers key regulatory developments such as Sarbanes Oxley and provides links for further reading.

An introduction to marketing concepts, strategies and practices with a balance of depth of coverage and ease of learning. Principles of Marketing keeps pace with a rapidly changing field, focussing on the ways brands create and capture consumer value. Practical content and linkage are at the heart of this edition. Real local and international examples bring ideas to life and new feature 'linking the concepts' helps students test and consolidate understanding as they go. The latest edition enhances understanding with a unique learning design including revised, integrative concept maps at the start of each chapter, end-of-chapter features summarising ideas and themes, a mix of mini and major case studies to illuminate concepts, and critical thinking exercises for applying skills.

Risk is a popular topic in many sciences - in natural, medical, statistical, engineering, social, economic and legal disciplines. Yet, no single discipline can grasp the full meaning of risk. Investigating risk requires a multidisciplinary approach. The authors, coming from two very different disciplinary traditions, meet this challenge by building bridges between the engineering, the statistical and the social science perspectives. The book provides a comprehensive, accessible and concise guide to risk assessment, management and governance. A basic pillar for the book is the risk governance framework proposed by the International Risk Governance Council (IRGC). This framework offers a comprehensive means of integrating risk identification, assessment, management and communication. The authors develop and explain new insights and add substance to the various elements of the framework. The theoretical analysis is illustrated by several examples from different areas of applications.

This book provides a comprehensive commentary on the UNCITRAL Model Law on International Arbitration. Combining both theory and practice, it is written by leading academics and practitioners from Europe, Asia and the Americas to ensure the book has a balanced international coverage. The book not only provides an article-by-article critical analysis, but also incorporates information on the reality of legal practice in UNCITRAL jurisdictions, ensuring it is more than a recitation of case law and variations in legal text. This is not a handbook for practitioners needing a supportive citation, but rather a guide for practitioners, legislators and academics to the reasons the Model Law was structured as it was, and the reasons variations have been adopted.

Offers students with a logical introduction to contract law. Exploring various developments and case decisions in the field of contract law, this title combines an examination of authorities and commentaries with a modern contextual approach.

More than 18 million people in the United States have diabetes mellitus, and about 90% of these have the type 2 form of the disease. This book attempts to dissect the complexity of the molecular mechanisms of insulin action with a special emphasis on those features of the system that are subject to alteration in type 2 diabetes and other insulin resistant states. It explores insulin action at the most basic levels, through complex systems.

We all face risks in a variety of ways, as individuals, businesses and societies. The discipline of risk assessment and risk management is growing rapidly and there is an enormous drive for the implementation of risk assessment methods and risk management in organizations. There are great expectations that these tools provide suitable frameworks for obtaining high levels of performance and balance different concerns such as safety and costs. The analysis and management of risk are not straightforward. There are many challenges. The risk discipline is young and there are a number of ideas, perspectives and conceptions of risk out there. For example many analysts and researchers consider it appropriate to base their risk management policies on the use of expected values, which basically means that potential losses are multiplied with their associated consequences. However, the rationale for such a policy is questionable. A number of such common conceptions of risk are examined in the book, related to the risk concept, risk assessments, uncertainty analyses, risk perception, the precautionary principle, risk management and decision making under uncertainty. The Author discusses these concepts, their strengths and weaknesses, and concludes that they are often better judged as misconceptions of risk than conceptions of risk. Key Features: Discusses common conceptions of risk with supporting examples. Provides recommendations and guidance to risk analysis and risk management. Relevant for all types of applications, including engineering and business. Presents the Author's overall conclusions on the issues addressed throughout the book. All those working with risk-related problems need to understand the fundamental ideas and concepts of risk. Professionals in the field of risk, as well as researchers and graduate students will benefit from this book. Policy makers and business people will also find this book of interest.

The American edition of the revelatory Swedish book Spotify Untold, the basis of the new Netflix Original series slated for 2022! "Two excellent Swedish journalists recount the historic rise of the company that changed modern music not just as a riveting business tale, but as a lesson in tech geopolitics. Spotify's Daniel Ek shows why Silicon Valley does not always win."—David Kirkpatrick, New York Times bestselling author of The Facebook Effect Steve Jobs tried to stop this moment from ever happening. Google and Microsoft made bids to preempt it. The music industry blocked it time and again. Yet, on a summer's eve in 2011, the whiz kid CEO of a Swedish start-up celebrated his

company's US launch. In the midst of the Apple-Android tech war and a music label crusade against piracy and illegal downloading, Spotify withdrew the battle lines, sent shockwaves through Silicon Valley, and got the hardline executives at Universal, Sony, and Warner to sign with its "free-mium" platform. In *The Spotify Play*, now adapted into an upcoming Netflix Original series, Swedish investigative tech journalists Sven Carlsson and Jonas Leijonhufvud, who covered the company from its inception, draw upon hundreds of interviews, previously untapped sources, and in-depth reporting on figures like Mark Zuckerberg, Sean Parker, Steve Jobs, Taylor Swift, Jay-Z, Pony Ma Huateng, and Jimmy Iovine. They have captured the riveting David vs. Goliath story of a disruptive innovator who played the industry giants in a quest to revolutionize the consumption of sound, building today's largest online source of audio, with more than 50 million songs, one million-plus podcasts, and over 300 million users.

This book constitutes the refereed post-conference proceedings of the 5th International Conference on Future Access Enablers for Ubiquitous and Intelligent Infrastructures, FABULOUS 2021, held in May 2021. Due to COVID-19 pandemic the conference was held virtually. This year's conference topic covers security of innovative services and infrastructure in traffic, transport and logistic ecosystems. The 30 revised full papers were carefully reviewed and selected from 60 submissions. The papers are organized in thematic sessions on: Internet of things and smart city; smart environment applications; information and communications technology; smart health applications; sustainable communications and computing infrastructures.

This book focuses on immune reactions and interactions of humans with *Helicobacter pylori* - a human pathogen connected to gastritis, peptic ulcers and even gastric cancer. With nearly half of the world's population colonized, it has been characterized as one of the most successful pathogens for more than 100,000 years of co-evolution with its host. The respective chapters discuss not only how *H. pylori* infection is considered a paradigm for persistent bacterial infection and chronic inflammation, but also how the infection might be connected to host protection against gastro-esophageal diseases, asthma, and other allergic disease manifestations. Readers will gain essential insights into the roles of specific factors in the immune response and learn about the impact of genetic polymorphisms on the risk of gastric carcinogenesis. In addition, the book discusses the strategies used by this bacterium, which allow it to colonize specific sites in the stomach, interact with the microbiome, evade immune surveillance and undermine the resolution of inflammation during persistent infection. This volume presents a concise summary of recent advances in the areas of induction, resolution and escape of inflammation, innate and adaptive immunity, gastric disease development, as well as treatment and vaccination against *H. pylori*. Accordingly, it offers a valuable asset for scientists and clinicians alike.

A compact overview of the most relevant concepts and developments in International Management. The various strategy concepts of internationally active companies and their implementation in practice are the core of this book. The authors describe the particularities of international value chain activities and management functions and offer a thorough understanding of how Production & Sourcing, Research & Development, Marketing, Human Resource Management and Controlling have to be designed in an international company and what models are available to understand those activities in an international context. In 23 lessons, a comprehensive overview of all key issues is given. Each lesson is accompanied by a case study from an international company to facilitate the understanding of all important factors involved in strategic international management. In this third edition, all chapters have been updated, all case studies revised, new chapters and recent data were integrated.

The book discusses instrumentation and control in modern fossil fuel power plants, with an emphasis on selecting the most appropriate systems subject to constraints engineers have for their projects. It provides all the plant process and design details, including specification sheets and standards currently followed in the plant. Among the unique features of the book are the inclusion of control loop strategies and BMS/FSSS step by step logic, coverage of analytical instruments and technologies for pollution and energy savings, and coverage of the trends toward field bus systems and integration of subsystems into one network with the help of embedded controllers and OPC interfaces. The book includes comprehensive listings of operating values and ranges of parameters for temperature, pressure, flow, level, etc of a typical 250/500 MW thermal power plant. Appropriate for project engineers as well as instrumentation/control engineers, the book also includes tables, charts, and figures from real-life projects around the world. Covers systems in use in a wide range of power plants: conventional thermal power plants, combined/cogen plants, supercritical plants, and once through boilers Presents practical design aspects and current trends in instrumentation Discusses why and how to change control strategies when systems are updated/changed Provides instrumentation selection techniques based on operating parameters.

Spec sheets are included for each type of instrument. Consistent with current professional practice in North America, Europe, and India

Power Plant Instrumentation and Control Handbook A Guide to Thermal Power Plants Academic Press

Astrocytes can be defined as the glia inhabiting the nervous system with the main function in the maintenance of nervous tissue homeostasis. Classified into several types according to their morphological appearance, many of astrocytes form a reticular structure known as astroglial syncytium, owing to their coupling via intercellular channels organized into gap junctions. Not only do astrocytes establish such homocellular contacts, but they also engage in intimate heterocellular interactions with neurons, most notably at synaptic sites. As synaptic structures house the very core of information transfer and processing in the nervous system, astroglial perisynaptic positioning assures that these glial cells can nourish neurons and establish bidirectional communication with them, functions outlined in the concepts of the astrocytic cradle and multi-partite synapse, respectively. Astrocytes possess a rich assortment of ligand receptors, ion and water channels, and ion and ligand transporters, which collectively contribute to astrocytic control of homeostasis and excitability. Astroglia control glutamate and adenosine homeostasis to exert modulatory actions affecting the real-time operation of synapses. Fluctuations of intracellular calcium can lead to the release of various chemical transmitters from astrocytes through a process termed gliotransmission. Sodium fluctuations are closely associated to those of calcium with both dynamic events interfacing signaling and metabolism. Astrocytes appear fully integrated into the brain cellular circuitry, being an indispensable part of neural networks.

What difference can the aspiring HR strategist really make to business value? In the new edition of her ground-breaking book, Linda Holbeche answers this question and provides the tools and insights to help HR managers and directors add value to the organization by implementing effective HR initiatives that are aligned to core business strategies. Featuring updated profiles and case studies from top HR strategists who have used their skills to deliver a variety of key business objectives, *Aligning Human Resources and Business Strategy*, 2nd edition provides inspiration and guidance on how to apply the

theory to challenges in your organization. Learn how you can strengthen and prove the relationship between people strategy and business success through your approach to performance and development and impress at the highest levels with this new edition of an HR classic. Linda Holbeche is Director of Research and Policy at the Chartered Institute of Personnel and Development (CIPD). Linda chairs and speaks at meetings and conferences worldwide and appeared at number six in Human Resources magazine's HR most influential 2008 roll call of top industry thinkers.

Aiming to bridge the gap between theory and application, this work focuses on strategic management.

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