

Api Rp 1169

oCompilation and evaluation of the newest applications of chromatography for food science and technology
oEnumeration of chromatographic methods and critical discussion of results
This book presents a unique collection of up-to-date chromatographic methods for the separation and quantitative determination of carbohydrates, lipids, proteins, peptides, amino acids, vitamins, aroma and flavor compounds in a wide variety of foods and food products. Chromatography in Food Science and Technology presents a concise evaluation of existing chromatographic methods used for many food and food product macro and microcomponents. Chromatographic methods are compiled according to the character of the food components to be separated. The book's chapters deal separately with the different classes of food components, presenting both gas and liquid chromatographic methods used for their determination, and discussing the advantages and disadvantages of each. Unlike other references, Chromatography in Food Science and Technology is entirely devoted to the use of chromatography for food analysis, and focuses on practical, food-related examples. It treats the theoretical aspects of chromatography briefly, to the degree that the information helps the use and development of new analytical methods for the separation of any kind of food components.

Although organic acids have been used to counteract pathogens in food for many years, there is a glaring need to assess and improve their continued effectiveness and sustainability. There is also a growing demand for foods that are produced using milder treatments (e.g., less heat, salt, sugar, and chemicals) and newer technologies to prevent the growth of dangerous bacteria. Organic Acids and Food Preservation concentrates on safe and effective techniques for applying organic acids to prevention of bacterial growth. Despite the wide range of potentially useful antimicrobials, relatively few are suitable in practice—and this invaluable hands-on guide explains why. With its wealth of information and rare focus solely on the subject, it provides practical tools that can be used in the food industry, various academic disciplines, research, education, and food technology fields to better understand the problem and develop optimal solutions. Why are preservative strategies ineffective? Why are microorganisms becoming acid tolerant and resistant in other ways? To answer these and other key questions, the authors combine research findings from industries and laboratories around the globe, specific application regimen, future prospects, and other information that is vital to the successful use of organic acids as food preservatives. After outlining challenges that the food industry faces from modern consumer trends, food legislation, and other obstacles, this book then explores possible solutions that are applicable not only to food science but to microbiology, food science, food technology, biochemistry, and biotechnology. It will become a valuable addition to the library of any scientist or researcher working in these and other fields.

This book is a printed edition of the Special Issue "Rietveld Refinement in the Characterization of Crystalline Materials" that was published in Crystals

"TRB Special Report 321: Strengthening the Safety Culture of the Offshore Oil and Gas Industry offers recommendations to industry and regulators to strengthen and sustain the safety culture of the offshore oil and gas industry. The committee that prepared the report addresses conceptual challenges in defining safety culture and discusses the empirical support for the definition of safety culture" offered by the Bureau of Safety and Environmental Enforcement, the nine characteristics or elements of a robust safety culture, methods for assessing company safety culture, and barriers to improving safety culture in the offshore industry. The committee's report also identifies topics on which further research is needed with respect to assessing, improving, and sustaining safety culture"—Provided by publisher.

Developing Production File Driving Criteria from Test File Data

API 1169 Pipeline Construction Inspector Examination Guidebook

Groundwater Chemicals Desk Reference

Rietveld Refinement in the Characterization of Crystalline Materials

Synthesis Gas Combustion

Basic Concepts in Family Therapy

"Volume VII, Indexes and standards" contains a master author index and a master subject index for Volumes I through VI of the "Petroleum engineering handbook." It also features an abridged version of the SPE Symbols Standard, which includes commonly used symbols and subscripts, and a list of SI Metric Conversion Factors, excerpted from the SPE Metric Standard.

This book examines the treatability of hazardous wastes by different physicochemical treatment processes according to the Quantitative Structure and Activity Relationship (QSAR) between kinetic rate constants and molecular descriptors. The author explores how to use these models to select treatment processes according to the molecular structure of Experts are predicting that demand for marine fish oil will soon outstrip supply, creating extreme urgency within the global aquafeed industry to find viable alternatives. Fish Oil Replacement and Alternative Lipid Sources in Aquaculture Feeds is the first comprehensive review of this multifaceted, complex issue. It also addresses the crucial questions about whether or not the industry will be able to meet increasing worldwide demand for fisheries products. The First & Only Book Specifically Addressing this Issue With contributions from more than 30 international experts, the book provides a global perspective on the production, rationale, and use of fish oils, vegetable oils, and animal fats in relation to the aquaculture and aquafeed industries. After a detailed discussion on alternative lipid sources, the book discusses groundbreaking research on the use of these lipid sources as fish oil substitutes, as well as their potential advantages and challenges for use in aquafeeds. Written by Leading Scientists & Industry Authorities Rounding out its solid coverage, the book then explores the important physiological effects of various lipid sources and their components on growth, lipid metabolism, health, and postharvest qualities of the farmed fish. Both timely and pertinent, Fish Oil Replacement and Alternative Lipid Sources in Aquaculture Feeds is the most authoritative and comprehensive review on the substitution of fish oil in aquaculture feeds addressing the issues, science, and future directions of using sustainable alternatives.

Coronavirus disease 2019 (COVID-19), caused by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), spread globally to pandemic proportions. Although the majority of cases have asymptomatic or mild infections, a significant proportion of cases progress to severe pneumonia and acute respiratory distress syndrome requiring critical care. Opportunistic infections following severe respiratory viral infections have been recognized since the 1918 influenza pandemic. Among critically ill patients with COVID-19, secondary fungal infections caused by Aspergillus and Candida spp. are increasingly described, affecting up to 30% of COVID-19 patients requiring intensive care treatment. This collection of manuscripts focuses on fungal infections complicating COVID-19, including immunological mechanisms and pathogenesis, diagnosis, and treatment.

Indoor Air Quality Engineering

Art Science Practice

Pipeline Construction

Microwave-Mediated Biofuel Production

Petroleum Engineering Handbook

Chromatography in Food Science and Technology

Indoor Air Quality Engineering covers a wide range of indoor air quality engineering principles and applications, providing guidelines for identifying and analyzing indoor air quality problems as well as designing a system to mitigate these problems. Structured into three sections - properties and behavior of airborne pollutants, measurement and sampling efficiency, and air quality enhancement technologies - this book uses real-life examples, design problems, and solutions to illustrate engineering principles. Professionals and students in engineering, environmental sciences, public health, and industrial hygiene concerned with indoor air quality control will find Indoor Air Quality Engineering provides effective methods, technologies, and principles not traditionally covered in other texts.

Gain confidence and creativity in your family therapy interventions with new, up-to-date research! Basic Concepts in Family Therapy: An Introductory Text, Second Edition, presents twenty-two basic psychological concepts that therapists may use to understand clients and provide successful services to them. Each chapter focuses on a single concept using material from family therapy literature, basic psychological and clinical research studies, and cross-cultural research studies. Basic Concepts in Family Therapy is particularly useful to therapists working in a family context with child- or adolescent-referred problems, and for students and clinicians treating the problems they see every day in their community. The book builds on the strengths of the first edition, incorporating ideas and articles that have become worthy of investigating since 1990 into the original text. This new edition also introduces five new chapters on resiliency and poverty, adoption, chronic illness, spirituality and religion, and parenting strategies. The new chapters make the book far more relevant for students and clinicians trying to use family theory and technique in response to the problems they see in their communities. Basic Concepts in Family Therapy will assist you in offering clients better services by providing a deeper understanding of the contemporary family in its various forms, the psychological bonds that shape all families, and the developmental stages of the family life cycle. This exploration of how family demography, stages and life cycles affect family functions is a solid foundation from which all of the therapeutic concepts in this book can be explored. Some of the facets of family therapy you will explore in Basic Concepts in Family Therapy are: the importance of spirituality and religion in family therapy generational boundaries, closeness, and role behaviors managing a family's emotions defining problems and generating and evaluating possible solutions teaching children specific attitudes, values, social skills, and norms transracial adoptions and normative processes and developmental issues of adoptive parents strategies for reducing conflict . . . and much more! Basic Concepts in Family Therapy will help to broaden your understanding of the ways families function in general. You can use the effective concepts explored in this text to make a thorough assessment of the impact of a disorder on a child and on the rest of his or her family, as well as how family dynamics might have shaped or exacerbated the problems. The concepts described in this text can be customized to clients/cultural values to avoid unnecessary resistance. As a new therapist, you will gain confidence in your assessments, and if you are already a seasoned professional, you will gain creativity in your interventions.

Handbook of Offshore Oil and Gas Operations is an authoritative source providing extensive up-to-date coverage of the technology used in the exploration, drilling, production, and operations in an offshore setting. Offshore oil and gas activity is growing at an expansive rate and this must have training guide covers the full spectrum including geology, types of platforms, exploration methods, production and enhanced recovery methods, pipelines, and environmental management and impact, specifically worldwide advances in study, control, and prevention of the industry's impact on the environment and its living resources. In addition, this book provides a go-to glossary for quick reference. Handbook of Offshore Oil and Gas Operations empowers oil and gas engineers and managers to understand and capture on one of the fastest growing markets in the energy sector today. Quickly become familiar with the oil and gas offshore industry, including deepwater operations Understand the full spectrum of the business, including environmental impacts and future challenges Gain knowledge and exposure on critical standards and real-world case studies

Based on the popular Antech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

Memory in the Real World

Springer Handbook of Petroleum Technology

Fundamentals and Applications

An Introductory Text, Second Edition

Fungal Infections Complicating COVID-19

Chemical Energy from Natural and Synthetic Gas

Composed of a series of essays, this book deals with the broad issues affecting the nature of architectural materials and provides a focused review of the state of the art materials. It also provides designers with the tools they need to evaluate and select from the thousands of different materials that are available to them. The book is organized into three sections: 'Time' looks at how the materials used in architectural design have changed over the years showing how we have come to use the materials we do in contemporary design. 'Materials' covers all the information on their properties, behavior, origins and uses in design. It also introduces a review of the cutting edge research for each family. 'Systems' outlines the technical design-orientated research that uncovers how new architectural assemblies can be designed and engineered. All of this practical advice is given along with many real case examples illustrating how this knowledge and information has been, and can be, used in architectural design.

Ensuring high levels of performance and safety in hot climates is a key consideration for sport scientists and coaches. Maximising Performance in Hot Environments is the first book with a project-based approach to focus solely on exercise in this common climatic condition, providing students and coaches with a clear and concise introduction to working with athletes in the heat. Rigorous in its physiological underpinnings, the book adopts a problem-based learning approach, encouraging students to engage with the science and apply it to practical, real-world situations, and a vital companion for any sport scientist or coach working with athletes in high temperatures.

IBM® Information Management System (IMSMIM) provides leadership in performance, reliability, and security to help you implement the most strategic and critical enterprise applications. IMS, IMS utilities, and IMS tools continue to evolve to provide value and meet the needs of enterprise customers. With IMS 12, integration and open access improvements provide flexibility and support business growth requirements. Scalability improvements have been made to the well-known performance, efficiency, availability, and resilience of IMS by using 64-bit storage. Information by describing the key IMS performance functions and by showing how to monitor and tune them with traditional and new strategic applications. This book is for database administrators and system programmers. We summarize methods and tools for monitoring and tuning IMS systems, describe IMS system-wide performance, database, and transaction considerations. Based on lab measurements, we provide information about recent performance enhancements that are available with IMS 12, and advice about setting performance-related parameters. Immanuel Kant is widely recognized as one of the most important Western philosophers since Aristotle. His thought has had, and continues to have, a profound effect on every branch of philosophy, including ethics, metaphysics, epistemology, aesthetics, political philosophy, and philosophy of religion. This Lexicon contains detailed and original entries by 130 leading Kant scholars, covering Kant's most important concepts as well as each of his writings. Part I covers Kant's notoriously difficult philosophical concepts, providing entries on these individual 'trees' of philosophy, with entries on each of his published works and on each of his sets of lectures and personal reflections. This part is arranged chronologically, revealing not only the broad sweep of Kant's thought but also its development over time. Professors, graduate students, and undergraduates will value this landmark volume.

A Problem-Based Learning Approach

Example Questions and Worked Answers

Novel Approaches to Minimising Mycotoxin Contamination

The Cambridge Kant Lexicon

Party Politics in Japan

Cognitive Interference

Discover how biomarkers can boost the success rate of drugdevelopment efforts As pharmaceutical companies struggle to improve the success rateand cost-effectiveness of the drug development process, biomarkershave emerged as a valuable tool. This book synthesizes and reviewsthe latest efforts to identify, develop, and integrate biomarkersas a key strategy in translational medicine and the drugdevelopment process. Filled with case studies, the bookdemonstrates how biomarkers can improve drug development timelines,lower costs, facilitate better compound selection, reduceate-stage attrition, and open the door to personalizedmedicine. Biomarkers in Drug Development is divided into eightparts: Part One offers an overview of biomarkers and their role in drugdevelopment. Part Two highlights important technologies to help researchersidentify new biomarkers. Part Three examines the characterization and validation processor both drugs and diagnostics, and provides practical advice onappropriate statistical methods to ensure that biomarkers fulfilltheir intended purpose. Parts Four through Six examine the application of biomarkers indiscovery, preclinical safety assessment, clinical trials, andtranslational medicine. Part Seven focuses on lessons learned and the practical aspectsof implementing biomarkers in drug development programs. Part Eight explores future trends and issues, including datatintegration, personalized medicine, and ethical concerns. Each of the thirty-eight chapters was contributed by one or moreleading experts, including scientists from biotechnology andpharmaceutical firms, academia, and the U.S. Food and DrugAdministration. Their contributions offer pharmaceutical andclinical researchers the most up-to-date understanding of thestrategies used for and applications of biomarkers in drugdevelopment.

In this volume, the first synthesis of work on cognitive interference, leading researchers, theorists, and clinicians from around the world confront a number of important questions about intrusive thoughts and suggest a challenging agenda for the future.

Commercial development of energy from renewables and nuclear is critical to long-term industry and environmental goals. However, it will take time for them to economically compete with existing fossil fuel energy resources and their infrastructures. Gas fuels play an important role during and beyond this transition away from fossil fuel dominance to a balanced approach to fossil, nuclear, and renewable energies. Chemical Energy from Natural and Synthetic Gas illustrates this point by examining the many roles of natural and synthetic gas in the energy and fuel industry, addressing it as both a "transition" and "end game" fuel. The book describes various types of gaseous fuels and how are they are recovered, purified, and converted to liquid fuels and electricity generation and used for other static and mobile applications. It emphasizes methane, syngas, and hydrogen as fuels, although other volatile hydrocarbons are considered. It also covers storage and transportation infrastructure for natural gas and hydrogen and methods and processes for cleaning and reforming synthetic gas. The book also deals applications, such as the use of natural gas in power production in power plants, engines, turbines, and vehicle needs. Presents a unified and collective look at gas in the energy and fuel industry, addressing it as both a "transition" and "end game" fuel. Emphasizes methane, syngas, and hydrogen as fuels. Covers gas storage and transport infrastructure. Discusses thermal gasification, gas reforming, processing, purification and upgrading. Describes biogas and bio-hydrogen production. Deals with the use of natural gas in power production in power plants, engines, turbines, and vehicle needs.

This fully revised and updated third edition of the highly acclaimed Memory in the Real World includes recent research in all areas of everyday memory. Distinguished researchers have contributed new and updated material in their own areas of expertise. The controversy about the value of naturalistic research, as opposed to traditional laboratory methods, is outlined, and the two approaches are seen to have converged and become complementary rather than antagonistic. The editors bring together studies on many different topics, such as memory for plans and actions, for names and faces, for routes and maps, life experiences and flashbulb memory, and eyewitness memory. Emphasis is also given to the role of memory in consciousness and metacognition. New topics covered in this edition include life span development of memory, collaborative remembering, deja-vu and memory dysfunction in the real world. Memory in the Real World will be of continuing appeal to students and researchers in the area.

Strengthening the Safety Culture of the Offshore Oil and Gas Industry

Maximising Performance in Hot Environments

A Practical Guide for Engineering and Design

American Petroleum Industry

Human Factors Methods

Processing of Heavy Crude Oils

Coal, still used to generate more than half of the electric power in the U.S., will likely be part of any future global energy plan. But this finite resource is also responsible for 80 percent of the CO2 emissions from power production, and its continued use will require improved processing techniques that are less damaging to the environment and less costly. One viable option is the use of "clean coal" energy conversion devices that rely on the combustion of gasified coal, referred to as synthesis gas, or syngas. Synthesis Gas Combustion: Fundamentals and Applications presents work from leading combustion authorities who offer their perspectives on various energy and environmental issues linked to the development of syngas and hydrogen combustion. This volume summarizes the current understanding of syngas, focusing first on combustion fundamentals and then on issues specific to application and utilization in fuel cells, internal combustion engines, and steady-flowing combustion devices such as gas turbines or boilers. In discussing syngas production, this book details the technical issues and trade-offs that influence fuel composition. It also explores combustion fundamentals of "clean coal" technologies, including chemical kinetics, flame properties, and emissions. Governments and companies around the world are devoting significant resources to improve understanding of the combustion of coal and bio-derived synthesis gases, to maximize the benefits of gasification technology and limit CO2 emissions. This valuable reference provides state-of-the-art context and technical information needed to develop clean energy systems. These include clean coal technologies, hydrogen and liquid fuel production, use of biomass feedstocks, and usage in fuel cells and other advanced power generation technologies.

IBT's seminar was the Future to bring together the new and growing community of scholars researching into the general field of energy modelling. Originally published in the same year, this report gathers together all of the papers presented at that seminar in order to further spread the results of these studies with those who were unable to attend. The papers cover a full range of techniques used for energy modelling whilst commenting on current government and industry models. This title will be of interest to students of Environmental Studies.

This full-color revision of A Primer of Pipeline Construction covers the history of the pipeline industry; technological innovations; modern pipeline construction from clearing the right-of-way to testing the completed pipeline; and specialty construction, including river crossings, swamp and marsh construction, laying pipe offshore, and Arctic construction. Includes a glossary of pipeline terms. Sponsored by the Pipe Line Contractors Association.

To the outside observer, the character and dynamics of Japan's political parties and Diet (National Assembly) are often obscure. This volume is an invaluable description of party politics in Japan, and a unique analysis of the influence that a changing balance of power has had upon the functioning of the Diet. The book covers: the party system and how it has changed since 1955; the electoral systems for the Representatives and Councilors in the Diet. An extensive analysis of the Diet's internal governance; a discussion of the influence on the Diet's functioning and role of the arrival of 'near parity' between the governing and opposition parties. The book is based on numerous interviews with Japanese politicians, journalists and bureaucrats, as well as extensive discussions with Japanese political scientists.

Software-Defined Radio for Engineers

Oil and Gas Pipeline Systems

Farms Trees and Farmers

Material Architecture

Organic Acids and Food Preservation

Theories, Methods, and Findings

This second edition of Human Factors Methods: A Practical Guide for Engineering and Design now presents 107 design and evaluation methods including numerous refinements to those that featured in the original. The book acts as an ergonomics methods manual, aiding both students and practitioners. Offering a 'how-to' text on a substantial range of ergonomics methods, the eleven sections represent the different categories of ergonomics methods and techniques that can be used in the evaluation and design process.

This handbook provides a comprehensive but concise reference resource for the vast field of petroleum technology. Built on the successful book "Practical Advances in Petroleum Processing" published in 2006, it has been extensively revised and expanded to include upstream technologies. The book is divided into four parts: The first part on petroleum characterization offers an in-depth review of the chemical composition and physical properties of petroleum, which determine the possible uses and the quality of the products. The second part provides a brief overview of petroleum geology and upstream practices. The third part exhaustively discusses established and emerging refining technologies from a practical perspective, while the final part describes the production of various refining products, including fuels and lubricants, as well as petrochemicals, such as olefins and polymers. It also covers process automation and real-time refinery-wide process optimization. Two key chapters provide an integrated view of petroleum technology, including environmental and safety issues.Written by international experts from academia, industry and research institutions, including integrated oil companies, catalyst suppliers, licensors, and consultants, it is an invaluable resource for researchers and graduate students as well as practitioners and professionals.

The API Individual Certification Programs (ICP) are well established in the oil/gas/petroleum industries. API runs multiple examination sites around the world at 6-monthly intervals. The three main ICPs are: API 570: Certified pipework inspector; API 510: Certified pressure vessel inspector; API 653: Certified storage tank inspector. Reviews one of API's three main ICPs: API 653: Certified storage tank inspector Discusses key definitions and scope, inspection regimes and testing techniques relating to tank design, linings, welds, protection systems, repair and alteration API

Individual Certification Programs (ICP) are well established in the oil/gas/petroleum industries

First published in 1997. Routledge is an imprint of Taylor & Francis, an informa company.

Behaviour and Rationality in Corporate Governance

Energy Modeling

Fish Oil Replacement and Alternative Lipid Sources in Aquaculture Feeds

Physicochemical Treatment of Hazardous Wastes

IMS 12 Selected Performance Topics

A Handbook of Practice, Application, and Strategy

Contamination of foods and agricultural commodities by various types of toxigenic fungi is a concerning issue for human and animal health. Moulds naturally present in foods can produce mycotoxins and contaminate foodstuffs under favourable conditions of temperature, relative humidity, pH, and nutrient availability. Mycotoxins are, in general, stable molecules that are difficult to remove from foods once they have been produced. Therefore, the prevention of mycotoxin contamination is one of the main goals of the agriculture and food industries. Chemical control or decontamination techniques may be quite efficient; however, the more sustainable and restricted use of fungicides, the lack of efficiency in some foods, and the consumer demand for chemical-residue-free foods require new approaches to control this hazard. Therefore, food safety demands continued research efforts for exploring new strategies to reduce mycotoxin contamination. This Special Issue contains original contributions and reviews that advance the knowledge about the most current promising approaches to minimize mycotoxin contamination, including biological control agents, phytochemical antifungal compounds, enzyme detoxification, and the use of novel technologies.

TRB's National Cooperative Highway Research Program (NCHRP) Synthesis 418: Developing Production File Driving Criteria from Test File Data provides information on the current practices used by state transportation agencies to develop pile driving criteria, with special attention paid to the use of test pile data in the process.

This book focuses on chemical syntheses and processes for biofuel production mediated by microwave energy. This is the first contribution in this area serving as a resource and guidance manual for understanding the principles, mechanisms, design, and applications of microwaves in biofuel process chemistry. Green chemistry of microwave-mediated biofuel reactions and thermodynamic potentials for the process biochemistry are the focus of this book.

Microwave generation, process design, development and configurations, and biofuel applications are discussed in detail.

This title aims to provide introductory and concluding surveys of the subject of farms, trees and farmers. Two central parts explore trends in farmer tree-growing and the factors which influence decision-making. Eight case studies cover, among other topics, the need for tree products, market access, the allocation of land and labour, and exposure to risk. In showing why farmers decide to grow or not grow trees, it seeks to increase the reader's knowledge about farming systems and to provide a guide to encouraging farm forestry throughout the world.

Handbook of Stress Medicine and Health, Second Edition

Handbook of Offshore Oil and Gas Operations

A Quick Guide to API 653 Certified Storage Tank Inspector Syllabus

A Survey of the Present Position of the Petroleum Industry and Its Outlook Toward the Future

Liquid Rocket Engine Turbopump Rotating-shaft Seals

Biomarkers in Drug Development

The latest edition of the bestselling Groundwater Chemicals Desk Reference has been thoroughly updated and expanded. In addition to information concerning the environmental fate and transport in various media, organic priority pollutants and chemicals commonly found in the workplace and the environment, it includes toxicity information for mammals and aquatic species in a clear, consistent format.

Corporate scandals due to bad accounting happen far too frequently for a system of corporate governance to be deemed effective. This book tells why the safeguards designed to prevent bad accounting so often fail. By studying why the auditors and members of a board of directors regularly fail to deliver the truth about a company's financial state of affairs, this provocative book explores a serious problem in the system of reporting financial information. This book is unique in that it draws together various strands of the literature on corporate governance, accounting, law, cognitive research, psychology, behavioural economics and conventional economics to shed light on questions regarding the feasibility of independence and impartiality of boards of directors and external auditors as monitors and gatekeepers in corporate governance. The book is essential reading for professional accountants and auditors, directors, regulators, law makers, corporate lawyers, and investment bankers. It will appeal to all those interested in behavioural economics and corporate governance.

Research now shows us that long-term activation of the stress cycle can have a hazardous, even lethal, effect on the body, increasing the risk of obesity, heart disease, depression, cancer, and other illnesses. This new edition of an award-winning book presents cutting-edge research on the effects of stress. Edited by one of the world's authorities in stress management, occupational psychology, and occupational medicine, Handbook of Stress Medicine and Health, Second Edition offers a completely revised and updated look at the different types of stress, including their characteristics, symptoms, duration, and treatment approaches. The text focuses a generic theory on stress and health and explores the relationship of stress to a variety of health outcomes, including heart disease, cancer, mental health, burnout, and complications of the endocrine and immune systems. It addresses the link between stress and personality, and discusses the impact of social support on various health conditions. The final chapters deal with stress and its consequences, such as the emotional processing of traumatic events, dealing with stress in families and in chronic disease, and coping with stress in the workplace. With contributions from the foremost leaders in the field, this authoritative book evaluates a wide range of psychosocial factors that contribute to many of today's major illnesses. It also proposes strategies for prevention and management, which will hopefully encourage future research into the reduction of stress.

Responses to Agricultural Intensification

Faber and Kell's Heating and Air Conditioning of Buildings