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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.

This book discusses manufactured carbon for the purposes of being a self-lubricating material for mechanical devices. Topics include; properties and graphite crystals, properties of manufactured carbon, the manufacture of carbon articles, machining carbon, carbon in mechanical seals, carbon in bearings, rotary pumps and motors, metering devices, and piston rings and cylinder liners.

Tourism, the world's largest industry, has created a variety of complex political problems, particularly in those countries where the primary attraction of tourism is its potential for accelerating development. The political dimensions that have encouraged tourism in the People's Republic of China, the Philippines, Thailand, India, Pakistan, Bangladesh, Sri Lanka, the Maldives, Nepal, and Bhutan are examined in Linda K. Richter's study, which is based on more than 250 interviews with government officials, travel industry representatives, and media officials. Richter concentrates on the reasons for using tourism to advance government policy objectives and on the many ways political and economic problems can frustrate tourism's contribution to national development. All too often, after the expensive infrastructure is developed, luxury goods imported, and lavish promotional efforts expended, nations are left disillusioned with the economic promise of tourism. Disappointing results are often complicated by a preoccupation with the lure of tourism and an underestimation of the industry's needs and of the political pressures of and on government officials.

Encouraging an awareness of the political aspects of tourism, the author advocates greater involvement by social and political

scientists in monitoring tourism policy, as well as a restructuring and redesigning of programs in this largest sector of international trade.

A memoir by the mustachioed baseball pitcher who went playing rocky, trash-ridden fields in Castro's Cuba to becoming a Boston Red Sox legend. Luis Tiant is one of the most charismatic and accomplished players in Boston Red Sox and Major League Baseball history. With a barrel-chested physique and a Fu Manchu mustache, Tiant may not have looked like the lean, sculpted aces he usually played against, but nobody was a tougher competitor on the diamond, and few were as successful. There may be no more qualified twentieth-century pitcher not yet enshrined in the National Baseball Hall of Fame. His big-league dreams came at a price: racism in the Deep South and the Boston suburbs, and nearly fifteen years separated from a family held captive in Castro's Cuba. But baseball also delivered World Series stardom and a heroic return to his island home after close to a half-century of forced exile. The man whose name—"El Tiante"—became a Fenway Park battle cry has never fully shared his tale in his own words, until now. In *Son of Havana*, Tiant puts his heart on his sleeve and describes his road from torn-up fields in Havana to the pristine lawns of major league ballparks. Readers will share Tiant's pride when appeals by a pair of US senators to baseball-fanatic Castro secure freedom for Luis's parents to fly to Boston and witness the 1975 World Series glory of their child. And readers will join the big-league ballplayers for their spring 2016 exhibition game in Havana, when Tiant—a living link to the earliest, scariest days of the Castro regime—threw out the first pitch.

The Hollywood Drama-Logue raved about "Deus Ex Machina" saying, "The play is a delight, it wonderfully places in perspective the more commercial aspects of the business of belief. ...wonderful vaudeville schtick, outright camp, and a fine understanding of man. ...comic and somehow touching characters in difficult outrageous comedy sequences creating a feeling of real people caught in a surrealistic future space. ...wit, wisdom and downright fun. Bailey makes his point clearly." The San Francisco Bay Guardian called it "One of the best original plays of the year." when it was presented in Berkeley and at the Pacific School of Religion. "Deus Ex Machina" and its prologue piece, "The Hands of the Beholder" are absurd, dark comedies about true believers, religious fundamentalists, and mystics who claim special knowledge of God. They take place in a rapidly approaching future when uncontrollable fervor is leading to a vaudevillian Armageddon. "Deus Ex Machina" is based on the biblical story of "Abraham and Issac". The nuclear family has split on how to find God and save the world. Father and son join on a rampage to unleash the power that is supposed to be contained in calling out the true name of God. The wife and mother warns of the impending disaster that will be the result of their quest. Ignoring her, they rush headlong through a hilarious melee of mystical, religious, and scientific information as they seek to recreate the days when the money flowed and God smiled upon them. "The Hands of the Beholder" sets the stage for the end of the world when anarchist historians urge that each and every person remain vigilant and become aggressively active in choosing the tools to use in creating history they way they think it should be. Together, they describe a time that has become increasing real and menacing, leaving us only with the ability to tell a few jokes and laugh as the world crumbles around us.

Edition for 1983/84- published in 3 vols.: vol. 1, Organization descriptions and index; vol. 2, International organization participation; vol. 3, Global action networks; edition for 2012/2013- published in 5 vols: vol. 4, International organization bibliography and resources; vol. 4, Statistics, visualizations & patterns.

Synchronous motors are indubitably the most effective device to drive industrial production systems and robots with precision and rapidity. Their control law is thus critical for combining at the same time high productivity to reduced energy consumption. As far as possible, the control algorithms must exploit the properties of these actuators. Therefore, this work draws on well adapted models resulting from the Park's transformation, for both the most traditional machines with sinusoidal field distribution and for machines with non-sinusoidal field distribution which are more and more used in industry. Both, conventional control strategies like vector control (either in the synchronous reference frame or in the rotor frame) and advanced control theories like direct control and predictive control are thoroughly presented. In this context, a significant place is reserved to sensorless control which is an important and critical issue in tomorrow's motors.

Comprehensive and state of the art, the second edition of Pharmacotherapy of Depression offers major revisions of every chapter and the addition of new chapters by expert contributors. The first chapter reviews the neurobiology of depression, which lays the groundwork for understanding the mechanisms of action of antidepressants. In the next chapter, a review of the general principles guiding the diagnosis and medication treatment of unipolar depression is provided. The clinical pharmacology of antidepressants is reviewed in some detail, supplemented by tables that provide information on dosing, indications, and metabolism. Augmentation strategies are reviewed, including the use of non-traditional agents. The chapters that follow next address the use of antidepressants in special populations, such as the elderly and depressed individuals with psychosis, bipolar disorder, substance abuse, and post traumatic stress disorder. The complex issues involving the diagnosis and treatment of depression during pregnancy is thoroughly reviewed in Chapter 8 and provides a synthesis of the scientific literature in the area, one that is noted for contradictory and controversial findings, as well as guidelines for prescribing. The next chapter then provides an overview of the treatment of depression in the pediatric population, highlighting clinical concerns such as suicide risk. The book concludes with two chapters at the interface of medicine and psychiatry in the treatment of mood disorders: managing depression in primary care settings and depression associated with medical illnesses. The outstanding clinician-scientists who have contributed to this volume are all leaders in their fields and represent a broad spectrum of renowned institutions. A timely contribution to the literature, *The Pharmacotherapy of Depression, Second Edition*, offers busy clinicians from many disciplines a strong scientific foundation that seamlessly transitions into practical recommendations for clinical practice. The result is another gold-standard guide to the safe and effective use of the latest antidepressant medications.

From Christian missionary publications to the media strategies employed by today's NGOs, this interdisciplinary collection explores the entangled histories of humanitarianism and media. It traces the emergence of humanitarian imagery in the West and investigates how the meanings of suffering and aid have been constructed in a period of evolving mass communication,

demonstrating the extent to which many seemingly new phenomena in fact have long historical legacies. Ultimately, the critical histories collected here help to challenge existing asymmetries and help those who advocate a new cosmopolitan consciousness recognizing the dignity and rights of others.

This new edition of the bestselling *Measurement, Instrumentation, and Sensors Handbook* brings together all aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences; explains sensors and the associated hardware and software; and discusses processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes. Organized according to measurement problem, the Second Edition: Consists of 2 volumes Features contributions from 240+ field experts Contains 53 new chapters, plus updates to all 194 existing chapters Addresses different ways of making measurements for given variables Emphasizes modern intelligent instruments and techniques, human factors, modern display methods, instrument networks, and virtual instruments Explains modern wireless techniques, sensors, measurements, and applications A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development, *Measurement, Instrumentation, and Sensors Handbook, Second Edition* provides readers with a greater understanding of advanced applications.

Directory is indexed by name (parent and subsidiary), geographic location, Standard Industrial Classification (SIC) Code, and corporate responsibility.

Vols. for 1970-71 includes manufacturers' catalogs.

This book explores economic concepts related to disaster losses, describes mechanisms that determine the economic consequences of a disaster, and reviews methodologies for making decisions regarding risk management and adaptation. The author addresses the need for better understanding of the consequences of disasters and reviews and analyzes three scientific debates on linkage between disaster risk management and adaptation to climate change. The first involves the existence and magnitude of long-term economic impact of natural disasters on development. The second is the disagreement over whether any development is the proper solution to high vulnerability to disaster risk. The third debate involves the difficulty of drawing connections between natural disasters and climate change and the challenge in managing them through an integrated strategy. The introduction describes economic views of disaster, including direct and indirect costs, output and welfare losses, and use of econometric tools to measure losses. The next section defines disaster risk, delineates between "good" and "bad" risk-taking, and discusses a pathway to balanced growth. A section entitled "Trends in Hazards and the Role of Climate Change" sets scenarios for climate change analysis, discusses statistical and physical models for downscaling global climate scenarios to extreme event scenarios, and considers how to consider extremes of hot and cold, storms, wind, drought and flood. Another section analyzes case studies on hurricanes and the US coastline; sea-level rises and storm surge in Copenhagen; and heavy precipitation in Mumbai. A section on Methodologies for disaster risk management includes a study on cost-benefit analysis of coastal protections in New Orleans, and one on early-warning systems in developing countries. The next section outlines decision-making in disaster risk management, including

robust decision-making, No-regret and No-risk strategies; and strategies that reduce time horizons for decision-making. Among the conclusions is the assertion that risk management policies must recognize the benefits of risk-taking and avoid suppressing it entirely. The main message is that a combination of disaster-risk-reduction, resilience-building and adaptation policies can yield large potential gains and synergies.

Graham & Trotman, a member of the Kluwer Academic VOLUMES 1 & 2 Publishers Group is one of Europe's leading publishers of MAJOR COMPANIES OF EUROPE 1990/91, Volume 1, business information, and publishes company reference containing useful information on over 4000 of the top annuals on other parts of the world as follows: Companies In the European Economic Community, excluding the UK, nearly 1500 companies of which are MAJOR COMPANIES OF THE ARAB WORLD covered in Volume 2. Volume 3 covers nearly 1100 of the MAJOR COMPANIES OF THE FAR EAST & AUSTRALASIA top companies within Western Europe but outside the MAJOR COMPANIES OF THE U.S.A. European Economic Community. Altogether the three volumes of MAJOR COMPANIES OF EUROPE now Please send for a free complete catalogue of the provide in authoritative detail, vital information on over company's books on business management techniques, 6600 of the largest companies in Western Europe. business law, finance, banking, export markets, oil technology, energy resources, pollution control and a MAJOR COMPANIES OF EUROPE 1990/91, Volumes 1 number of other subject areas to: The Editor, Major & 2 contain many of the largest companies throughout the world The Companies of Europe, Graham & Trotman Ltd, Sterling area covered by these volumes, the European Economic House, 66 Wilton Road, London SW1V 1DE.

This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.

The term "software visualisation" refers to the graphical display of characteristics and behaviour of all aspects of software: design and analysis methods, systems, programs and algorithms. The purpose of this book is to collect and compare different experiences of software visualisation both from fundamental and applied viewpoints. The book is divided into four parts, covering important aspects of software visualisation. Part 1 covers a survey on existing software visualisation tools and environments, the strategies for making a software visualisation system language independent, and program animation for C language. Part 2 presents topics and techniques on graph drawing, which supports efficient and aesthetically pleasing visualisation. Some recently developed graph drawing systems and techniques used are described. Part 3 discusses visual programming concepts and techniques for supporting parallel and heterogeneous distributed programming. Part 4 includes several case studies of software visualisation, concentrating on the broader field of software engineering ranging from software metrics to reverse engineering.

"SCIENCE AND TECHNOLOGY OF 'THE UNDERCOOLED MELT'" This title was chosen as the topical headline of the Advanced Research Workshop (ARW) from March 17 to 22 1985, held at the Castle of Theuern. The usual term "Rapid Solidification" is an overlapping description. Due to the fact that nucleation is so eminently important for the undercooling of a melt and this, in turn, is an important characteristic of rapid solidification, undercooling plays an essential role in "rapid solidification." The undercooled melt has caused an "accelerated evolution" (if not a revolution) in materials science during the last decade. Several rather exciting concepts with interesting potential for novel applications are being

pursued presently in various laboratories and companies. They concern not only new processes and hardware developments, but also present challenging perspectives for ventures, including the founding of new companies; or they promise growth possibilities with established larger and smaller industrial establishments.

This new edition of one of the premier references for geriatric nurses in hospital, long-term, and community settings delivers current guidelines, real-life case studies, and evidence-based protocols developed by master educators and practitioners. With a focus on improving quality of care, cost-effectiveness, and outcome, the fifth edition is updated to provide the most current information about care of common clinical conditions and issues in older patients. Several new expert contributors present current guidelines about hip fractures, frailty, perioperative and postoperative care, palliative care, and senior-friendly emergency departments. Additionally, chapters have been reorganized to enhance logical flow of content and easy information retrieval. Protocols, systematically tested by more than 300 participating NICHE (Nurses Improving Care for Health system Elders) hospitals, are organized in a consistent format and include an overview, evidence-based assessment and intervention strategies, and an illustrative case study with discussion. Additionally, protocols are embedded within chapter text, providing the context and detailed evidence for each. Chapter objectives, annotated references, and evidence ratings for each protocol are provided along with resources for additional study. New to the Fifth Edition: Reorganized to enhance logical flow of information and ease of use Updated and revised Includes new contributions from expert educators and practitioners Provides new chapters on perioperative and postoperative care, general surgical care, care of hip fracture, palliative care, and the senior-friendly emergency department Key Features: Includes PowerPoints and a test bank for instructors Delivers evidence-based, current guidelines and protocols for care of common clinical conditions in the older person Illustrates the application of clinical protocols to real-life practice through case studies and discussion Edited by nationally known geriatric leaders who are endorsed by the Hartford Institute for Geriatric Nursing and NICHE Written for nursing students, nurse leaders, and practitioners at all levels, including those in specialty roles

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