

Sohail Afzal Advanced Accounting Chapter Ratio Solution

South Asia Region (SAR) has decreased maternal mortality ratio (MMR) by 65 percent between 1990 and 2013, which was the greatest progress among all world regions. Such achievement implores the question, What made SAR stand out against what is predicted by standard socioeconomic outcomes? Improving Maternal and Reproductive Health in South Asia: Drivers and Enablers identifies the interventions and factors that contributed to reducing MMR and improving maternal and reproductive health (MRH) outcomes in SAR. In this study, the analytical framework assumes that improving MRH outcomes is influenced by a multitude of forces from within and outside the health system and considers factors at the household and community levels, as well as interventions in other sectors and factors in the enabling environment. The analysis is based on a structured literature review of the interventions in SAR countries, relevant international experience, and review of the best available evidence from systematic reviews. The focus of the analysis is mainly on assessing the effectiveness of interventions. The findings from this study indicate that the most effective interventions that prevent

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maternal mortality are those that address the intra-partum stage - the point where most maternal deaths occur - and include improving skilled birth attendance coverage, increasing institutional delivery rates, and scaling up access to emergency obstetric care. There is also adequate evidence that investing in family planning to increase contraceptive use also played a key role during the inter-partum phase by preventing unwanted pregnancies and thus averting the risk of maternal mortality in SAR countries.

Outside the programmatic interventions, the levels of household income, women's education, and completion of secondary education of girls were also strongly correlated with improved MRH outcomes. Also, there is strong evidence that health financing schemes - both demand and supply side - and conditional cash transfer programs were effective in increasing the uptake of MRH services. The study points out to many other interventions with different degrees of effectiveness. The study also identified four major reasons for why SAR achieved this progress in MMR reduction. The best practices and evidence of what works synthesized in this study provide an important way forward for low- and middle-income countries toward achieving the health-related Sustainable Development Goals.

The Atlantic Monthly, Volume 01, No. 04, February, 1858
LitresAnd Introduction to Ethics
Allied Publishers
Cost Accounting
Planning and

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ControlHandbook of African Medicinal Plants,
Second EditionCRC Press

This book provides the most comprehensive and authoritative book yet published on the subject of criminal investigation, a rapidly developing area within the police and other law enforcement agencies, and an important sub discipline within police studies. The subject is rarely out of the headlines, and there is widespread media interest in criminal investigation. Within the police rapid strides are being made in the direction of professionalizing the criminal investigation process, and it has been a particular focus as a means of improving police performance. A number of important reports have been published in the last few years, highlighting the importance of the criminal investigation process not only to the work of the police but to public confidence in this. Each of these reports has identified shortcomings in the way criminal investigations have been conducted, and has made recommendations for improvement . The Handbook of Criminal Investigation provides a rigorous and critical approach to not only the process of criminal investigation, but also the context in which this takes place, the theory underlying it, and the variety of factors which influence approaches to it. It will be an indispensable source of reference for anybody with an interest in, and needing to know about, criminal investigation. Contributors to the book are drawn

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from both practitioners in the field and academics. This book provides a comprehensive analysis of Waqf management and its impact on socio-economic development, specifically financial inclusion and sustainable development as well as of the legal issues in Waqf management in IsDB member countries and jurisdictions. It explores various aspects of Waqf management in IsDB member countries/jurisdictions as well as in non-Muslim majority countries such as Waqf regulation, its modernization, and relationship to Maqasid Al-Shari'ah; performance of Waqf activities; time and activity-wise distribution of Waqf resource management; the antecedents and consequences of Waqf assets (both physical and cash); the strategies and models to promote Waqf related activities for greater socio-economic development; good governance practices through the formulation of informed policies for Waqf projects, among others. Comprising different issues and perspectives adopted by various researchers, the work is specifically designed to meet the needs of academics and industry practitioners in the field of Islamic finance.

This book constitutes the proceedings of the 14th International Conference on Intelligent Tutoring Systems, IST 2018, held in Montreal, Canada, in June 2018. The 26 full papers and 22 short papers presented in this volume were carefully reviewed

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and selected from 120 submissions. In the back matter of the volume 20 poster papers and 6 doctoral consortium papers are included. They deal with the use of advanced computer technologies and interdisciplinary research for enabling, supporting and enhancing human learning.

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This book includes 19 chapters contributed by the world's leading experts on pretreatment methods for biomass. It extensively covers the different types of biomass (e.g. molasses, sugar beet pulp, cheese whey, sugarcane residues, palm waste, vegetable oil, straws, stalks and wood), various pretreatment approaches (e.g. physical, thermal, chemical, physicochemical and biological) and methods that show the subsequent production of biofuels and chemicals such as sugars, ethanol, extracellular polysaccharides, biodiesel, gas and oil. In addition to traditional methods such as steam, hot-water, hydrothermal, diluted-acid, organosolv, ozonolysis, sulfite, milling, fungal and bacterial, microwave, ultrasonic, plasma, torrefaction, pelletization,

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gasification (including biogas) and liquefaction pretreatments, it also introduces and discusses novel techniques such as nano and solid catalysts, organic electrolyte solutions and ionic liquids. This book offers a review of state-of-the-art research and provides guidance for the future paths of developing pretreatment techniques of biomass for biofuels, especially in the fields of biotechnology, microbiology, chemistry, materials science and engineering. It intends to provide a systematic introduction of pretreatment techniques. It is an accessible reference work for students, researchers, academicians and industrialists in biorefineries. Zhen Fang is a Professor of Bioenergy and the leader and founder of the biomass group at the Xishuangbanna Tropical Botanical Garden of the Chinese Academy of Sciences. He is also an adjunct full Professor of Life Sciences at the University of Science and Technology of China.

Agronomic crops have provided food, beverages, fodder, fuel, medicine and industrial raw materials since the beginning of human civilization. More recently, agronomic crops have been cultivated using scientific rather than traditional methods. However, in the current era of climate change, agronomic crops are suffering from different environmental stresses that result in substantial yield loss. To meet the food demands of the ever-increasing global population, new technologies and

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management practices are being adopted to boost yields and maintain productivity under both normal and adverse conditions. Further, in the context of sustainable agronomic crop production, scientists are adopting new approaches, such as varietal development, soil management, nutrient and water management, and pest management. Researchers have also made remarkable advances in developing stress tolerance in crops. However, the search for appropriate solutions for optimal production to meet the increasing food demand is still ongoing. Although there are several publications on the recent advances in these areas, there are few comprehensive resources available covering all of the recent topics. This timely book examines all aspects of production technologies, management practices and stress tolerance of agronomic crops. Recent developments in the field of nutrition have led to increased interest in herbs and medicinal plants as phytochemical-rich sources for functional food, nutraceuticals, and drugs. As research sheds light on the therapeutic potential of various bioactive phytochemicals, the demand for plant extracts and oils has increased. Black cumin or black seeds (*Nigella sativa*) have particularly widespread nutritional and medicinal applications. In traditional medicine, black seeds are used to manage fatigue and chronic headache. Black seed oil is used as an antiseptic and analgesic remedy and for treatment of

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joint's pain and stiffness and can be mixed with sesame oil to treat dermatosis, abdominal disorders, cough, headache, fever, liver ailments, jaundice, sore eyes, and hemorrhoids. Thymoquinone, the main constituent in black seed volatile oil, has been shown to suppress carcinogenesis. Black cumin (*Nigella sativa*) seeds: Chemistry, Technology, Functionality, and Applications presents in detail the chemical composition, therapeutic properties, and functionality of high-value oils, phytochemicals, nutrients, and volatiles of the *Nigella sativa* seed. Organized by formulation (seeds, fixed oil, essential oil, and extracts), chapters break this seed down into its chemical constituents and explore their role in the development of pharmaceuticals, nutraceuticals, novel food, natural drugs, and feed. Following numerous reports on the health-promoting activities of *Nigella sativa*, this is the first comprehensive presentation of the functional, nutritional, and pharmacological traits of *Nigella sativa* seeds and seed oil constituents.

One million students and business executives have used the market-leading text *Exploring Strategy* to boost their academic and professional careers. The expert authors now transfer the essence of *Exploring Strategy* into *The Fundamentals of Strategy*. This book is particularly suited for those engaged in short courses.

This book challenges the uncritical use of the long

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held dictum of the development discourse that education empowers women. Situated in the post-structuralist feminist position it argues that in its current state the educational discourse in Pakistan actually disempowers women.

The extent of urban air pollution in Pakistan—South Asia's most urbanized country—is among the world's most severe, significantly damaging human health, quality of life, and the economy and environment of Pakistan. The harm from Pakistan's urban air pollution is among the highest in South Asia, exceeding several high-profile causes of mortality and morbidity in Pakistan. Improved air quality management (AQM) in Pakistan can have notable economic and health benefits. For example, the estimated health benefits per dollar spent on cleaner diesel are approximately US \$1–1.5 for light-duty diesel vehicles and US \$1.5–2.4 for large buses and trucks. This report advocates that Pakistan allocate resources to AQM, because its air quality is severely affecting millions of Pakistanis, and because experiences around the world indicate that interventions can significantly improve air quality. This report details a broad spectrum of research on Pakistan's AQM challenges, and identifies a comprehensive set of steps to improve air quality. The research presented here underpins the conclusions that addressing Pakistan's urban air pollution requires coordinated interventions to

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strengthen AQM, build agencies' institutional capacity, bolster AQM's legal and regulatory framework, implement policy reforms and investments, and fill knowledge gaps. However, Pakistan's policy makers face major obstacles, including limited financial, human, and technical resources, and can pursue only a few AQM interventions at the same time. In the short term, Pakistan's AQM should give highest priority to reducing pollutants linked to high morbidity and mortality: PM_{2.5} (and precursors like SO_x and NO_x) from mobile sources. A second-level short-term priority could be PM_{2.5}, SO_x, and emissions of toxic metals from stationary sources. An important medium-term priority should be mass transportation in major cities, controlling traffic, and restricting private cars during high-pollution episodes. A long-term priority could be taxing hydrocarbons, based on their contribution to greenhouse gases.

This book identifies reforms that can help manage environmental priority problems associated with transport's impacts on air quality, noise pollution, road safety, hazardous-materials transport, climate change, and urban sprawl. The policy options are contextualized in light of the Government of Pakistan's 2011 Framework for Economic Growth and its strategic objectives. Appendixes A–D present additional background information, describe the economic and institutional analyses undergirding this

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report, and detail the report's methodology. This analytical work by a team of World Bank specialists focuses on:

- analyzing the policy and institutional adjustments required to address environmental, social, and poverty aspects of increased transportation efficiency in Pakistan;
- identifying policy options for the Government of Pakistan to better serve the population, to enhance social cohesion, and to foster equitable benefit sharing with low-income or other vulnerable groups;
- developing a broad participatory process to give a voice to stakeholders who could be affected by enhancements of freight transport productivity; and
- making robust recommendations to strengthen governance and the institutional capacity of agencies to manage the environmental, social, and poverty consequences of freight transportation infrastructure.

Nature has always been, and still is, a source of food and ingredients that are beneficial to human health. Nowadays, plant extracts are increasingly becoming important additives in the food industry due to their antimicrobial and antioxidant activities that delay the development of off-flavors and improve the shelf life and color stability of food products. Due to their natural origin, they are excellent candidates to replace synthetic compounds, which are generally considered to have toxicological and carcinogenic effects. The efficient extraction of these compounds from their natural sources and the determination of

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their activity in commercialized products have been great challenges for researchers and food chain contributors to develop products with positive effects on human health. The objective of this Special Issue is to highlight the existing evidence regarding the various potential benefits of the consumption of plant extracts and plant-extract-based products, with emphasis on in vivo works and epidemiological studies, the application of plant extracts to improving shelf life, the nutritional and health-related properties of foods, and the extraction techniques that can be used to obtain bioactive compounds from plant extracts.

An attempt has been made by the authors in this book to explain the general principles of the subject of Town Planning. The subject matter is expressed in a simple language and practical manner. The treatment is clear, methodical as well as interesting and easy to follow.

This book offers a comprehensive study of the dynamics of civil-military relations in Pakistan. It asks how and why the Pakistan military has acquired such a salience in the polity and how it continues to influence decision-making on foreign and security policies and key domestic political, social and economic issues. It also examines the changes within the military, the impact of these changes on its disposition towards the state and society, and the implications for peace and security in nuclearized South Asia.

Pakistan's development efforts are guided by its 2011 Framework for Economic Growth, which identifies actions needed to create a prosperous, industrialized Pakistan through rapid and sustainable development. Industrialization

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has the potential to drive Pakistan's economic growth and contribute significantly to meeting both economic and human development goals in Pakistan. Expansions of industrialization activities, whether in highly developed or developing countries, can be stimuli for intense debate about such projects' benefits and costs to the region in which they are to be located, to the national economy—and to human health and the environment. Pakistan's 2011 Framework for Economic Growth recognizes that, to accelerate industrialization, Pakistan must reduce the cost of doing business and create an incentive structure designed to achieve a competitive, dynamic, and export-driven industrial sector capable of providing employment to the growing labor force. Competing in global markets requires a socially and environmentally sustainable industrialization strategy. The four main inputs for sustainable industrial growth in Pakistan discussed in this book are 1) Macroeconomic stability and sectoral policies to support industrial competitiveness by allowing long-term planning, including investments in infrastructure and cleaner production. 2) Upgraded trade facilitation and infrastructure (particularly transport and energy) to address some of industrialization's spatial aspects. Improved transport infrastructure will lower production's environmental costs. 3) Greening of Pakistan's industrial sector to enhance international competitiveness—"greening" will make Pakistan a more attractive export partner for nations and firms committed to green production. 4) Strong institutions—for example, environmental management agencies to control pollution, and cleaner production centers to increase domestic awareness of international environmental standards—to implement industrialization initiatives effectively, including those for small and medium-sized enterprises. This book provides a comprehensive analysis of issues relating to the debate about

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Pakistan's green industrial growth and lays out priorities and strategies for "greening" Pakistan's industrial growth.

Business Accounting is the world's best-selling textbook on bookkeeping and accounting. Its clear explanations, in simple language, a wealth of worked examples and large number of questions and answers, have made it a popular choice with both students and lecturers for over thirty years. Other popular features are its comprehensiveness, the clarity of presentation and layout and the structured manner in which it builds knowledge in logically progressing short chapters. In this edition the distribution of chapters between the two volumes has been rationalised. Volume 1 now includes more-complete coverage of special accounting procedures and partnerships. Chapters on partnership dissolution, joint venture accounts, bills of exchange, and consignment accounts, have been incorporated from Volume 2. A selection of recent questions from examining boards and professional bodies has been included.

The relationship between America and Pakistan is based on mutual incomprehension and always has been. Pakistan—to American eyes—has gone from being a quirky irrelevance, to a stabilizing friend, to an essential military ally, to a seedbed of terror. America—to Pakistani eyes—has been a guarantee of security, a coldly distant scold, an enthusiastic military enabler, and is now a threat to national security and a source of humiliation. The countries are not merely at odds. Each believes it can play the other—with sometimes absurd, sometimes tragic, results. The conventional narrative about the war in Afghanistan, for instance, has revolved around the Soviet invasion in 1979. But President Jimmy Carter signed the first authorization to help the Pakistani-backed mujahedeen covertly on July 3—almost six months before the Soviets invaded. Americans were told, and like to believe, that what followed was Charlie Wilson's war of Afghani

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liberation, with which they remain embroiled to this day. It was not. It was General Zia-ul-Haq's vicious regional power play. Husain Haqqani has a unique insight into Pakistan, his homeland, and America, where he was ambassador and is now a professor at Boston University. His life has mapped the relationship of the two countries and he has found himself often close to the heart of it, sometimes in very confrontational circumstances, and this has allowed him to write the story of a misbegotten diplomatic love affair, here memorably laid bare.

With over 50,000 distinct species in sub-Saharan Africa alone, the African continent is endowed with an enormous wealth of plant resources. While more than 25 percent of known species have been used for several centuries in traditional African medicine for the prevention and treatment of diseases, Africa remains a minor player in the global natural products market largely due to lack of practical information. This updated and expanded second edition of the Handbook of African Medicinal Plants provides a comprehensive review of more than 2,000 species of plants employed in indigenous African medicine, with full-color photographs and references from over 1,100 publications. The first part of the book contains a catalog of the plants used as ingredients for the preparation of traditional remedies, including their medicinal uses and the parts of the plant used. This is followed by a pharmacognostical profile of 170 of the major herbs, with a brief description of the diagnostic features of the leaves, flowers, and fruits and monographs with botanical names, common names, synonyms, African names, habitat and distribution, ethnomedicinal uses, chemical constituents, and reported pharmacological activity. The second part of the book provides an introduction to African traditional medicine, outlining African cosmology and beliefs as they relate to healing and the use of herbs, health foods,

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and medicinal plants. This book presents scientific documentation of the correlation between the observed folk use and demonstrable biological activity, as well as the characterized constituents of the plants.

In a city mired in endless decay, where the youth suffer through all the horrors of urban blight, hope comes in a most unassuming form: a tiny brick schoolhouse run by two Felician nuns where a singular basketball genius takes teenagers from the mean streets of Jersey City and turns them into champions on the hardcourt. Coach Bob Hurley had been working miracles at St. Anthony High School for over thirty years, winning state and national championships and offering his players rescue from their surroundings through college scholarships, when he met his most dysfunctional team yet. In *The Miracle of St. Anthony* Adrian Wojnarowski follows Hurley through a gripping and heartrending season as he struggles to lead a troubled team to glory through his unparalleled understanding of the game and his ceaseless determination to see no more children lost to these streets. In *The Miracle of St. Anthony*, acclaimed sports journalist Adrian Wojnarowski follows Hurley through a gripping and heartrending season, as he struggles to lead a troubled team to glory through his unparalleled understanding of the game and his ceaseless determination to see no more children lost to the city streets.

This volume constitutes the refereed proceedings of the 4th International Workshop on Grid Economics and Business Models held in August 2007. The twelve full papers are organized into topical sections covering grid business modeling, market mechanisms for the grid, and economic grid service provisioning. The proceedings are rounded off by six project reports that give an overview of current and ongoing research in grid economics.

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Agriculture plays a pivotal role in the economy and development of Pakistan providing food to consumers, raw materials to industries, and a market for industrial goods. Unfortunately, agricultural production is stagnant due to several barriers including a fixed cropping pattern, reliance on a few major crops, a narrow genetic pool, poor seed quality, and a changing climate. In addition, the high cost of production, weak phytosanitary compliance mechanisms, and a lack of cold chain facilities makes Pakistan agriculturally uncompetitive in export markets. Despite all these issues, agriculture is the primary industry in Pakistan and small farmers continue to dominate the business. Small farmers grow crops for subsistence under a fixed cropping pattern and a holistic approach is required to develop agriculture to improve the livelihoods of the rural populace. This book presents an exhaustive look at agriculture in Pakistan. Chapters provide critical analyses of present trends, inadequacies in agriculture, strategic planning, improvement programs and policies while keeping in view the natural resources, plant- and animal-related agricultural production technologies, input supplies, population planning, migration and poverty, and balanced policies on finance, credit, marketing, and trade.

Youth Work in the Commonwealth: A Growth Profession establishes a baseline to inform the planning and implementation of initiatives to professionalise youth work in Commonwealth member countries. The study was conducted in 35 countries in the Africa, Asia, the Caribbean/Americas, Europe and Pacific regions. It

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catalogues the extent to which the youth work profession is formally recognised in these countries and examines the qualities and rights-based ethos of the various forms of youth work promoted and practised in the Commonwealth. The report aims to help countries learn from good practices, and assess gaps in establishing youth work as a recognised profession in diverse contexts.

Horngren's "Cost Accounting" defined the cost accounting market and continues to innovate today by consistently integrating the most current practice and theory. This acclaimed, number one market-leading book embraces the basic theme of "different costs for different purposes." It reaches beyond cost accounting procedures to consider concepts, analyses, and management. This latest edition of "Cost Accounting" incorporates the latest research and most up-to-date thinking into all relevant chapters. Professional issues related to Management Accounting and Management Accountants are emphasized. Chapter topics cover the accountant's role in the organization to performance measurement, compensation, and multinational considerations. For future accountants who want to enhance their understanding of-and ability to-solve cost accounting problems.

This book highlights the importance of understanding gastric and colon cancer metabolism in guiding diagnosis and drug discovery. It summarizes the correlation between adiponectin and matrix metalloproteinase with colorectal cancer. The book also evaluates the divergent role of hypoxia-inducible factor 1 in colorectal cancer

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growth and metastasis. After discussing the role of genetic polymorphisms in alcohol metabolizing enzymes and EPHX1 with the onset of colorectal cancer, it reviews the molecular mechanisms of chemoresistance in gastric cancer and novel therapeutic strategies to reverse the chemoresistance of tumors. In addition, the book explores the theranostic role of nanoparticles and therapeutic potential of phytochemicals with regard to colorectal cancer. Given its scope, the book offers a valuable guide for oncologists, academic researchers, pharmaceutical practitioners, and students who are involved in research and treatment of cancer.

With the recent shift of chemical fertilizers and pesticides to organic agriculture, the employment of microbes that perform significant beneficial functions for plants has been highlighted. This book presents timely discussion and coverage on the use of microbial formulations, which range from powdered or charcoal-based to solution and secondary metabolite-based bioformulations.

Bioformulation development of biofertilizers and biopesticides coupled with the advantages of nanobiotechnology propose significant applications in the agricultural section including nanobiosensors, nanoherbicides, and smart transport systems for the regulated release of agrochemical. Moreover, the formulation of secondary metabolites against individual phytopathogens could be used irrespective of geographical positions with higher disease incidences. The prospective advantages and uses of nanobiotechnology generate tremendous interest, as it could augment production of agricultural produce while

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being cost-effective both energetically and economically. This bioformulation approach is incomparable to existing technology, as the bioformulation would explicitly target the particular pathogen without harming the natural microbiome of the ecosystem. Nanobiotechnology in Bioformulations covers the constraints associated with large-scale development and commercialization of bioinoculant formations. Furthermore, exclusive emphasis is placed on next-generation efficient bioinoculants having secondary metabolite formulations with longer shelf life and advanced competence against several phytopathogens. Valuable chapters deal with bioformulation strategies that use divergent groups of the microbiome and include detailed diagrammatic and pictorial representation. This book will be highly beneficial for both experts and novices in the fields of microbial bioformulation, nanotechnology, and nanomicrobiotechnology. It discusses the prevailing status and applications available for microbial researchers and scientists, agronomists, students, environmentalists, agriculturists, and agribusiness professionals, as well as to anyone devoted to sustaining the ecosystem.

Citizenship, indigenisation, inter-ethnic marriages and youthful exuberance are the core of WHERE ARE YOU FROM?. The novel questions the true meaning of federalism and highlights the frustration and disappointment young Nigerians face in their quest to succeed in a place where there are differences in background. It is an expose on how one can be lost in a country of one

Using accessible farming practices to meet the

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growing demands on agriculture is likely to result in more intense competition for natural resources, increased greenhouse gas emissions, and further deforestation and land degradation, which will in turn produce additional stress in the soil-water-plant-animal continuum. Stress refers to any unfavorable force or condition that inhibits customary functioning in plants. Concurrent manifestations of different stresses (biotic and abiotic) are very frequent in the environment of plants, which consequently reduces yield. Better understanding stress not only changes our perspective on the current environment, but can also bring a wealth of benefits, like improving sustainable agriculture and human beings' living standards. Innovative systems are called for that protect and enhance the natural resource base, while increasing productivity via 'holistic' approaches, such as agroecology, agro-forestry, climate-smart agriculture and conservation agriculture, which also incorporate indigenous and traditional knowledge. The book 'New Frontiers in Stress Management for Durable Agriculture' details the current state of knowledge and highlights scientific advances concerning novel aspects of plant biology research on stress, biotic and abiotic stress responses, as well as emergent amelioration and reclamation technologies to restore normal functioning in agroecology.

This book provides a knowledge-based view to the

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dynamic capabilities in an organization. The author integrates two existing views on gaining competitive advantage: the Knowledge View which suggests that the capability of organizations to learn faster than competitors is the only source of competitiveness; and the Dynamic Capability View which speculates that a firm's competitive advantage rests on its ability to adapt to changes in the business environment. Using the IT sector in India as a case study, this book provides and tests a new framework—Knowledge-Based Dynamic Capabilities—in the prediction of competitive advantage in organizations.

An ever-increasing dependence on green energy has brought on a renewed interest in polymer electrolyte membrane (PEM) electrolysis as a viable solution for hydrogen production. While alkaline water electrolyzers have been used in the production of hydrogen for many years, there are certain advantages associated with PEM electrolysis and its relevance to renewable energy sources. PEM Electrolysis for Hydrogen Production: Principles and Applications discusses the advantages of PEM electrolyzers over alkaline electrolyzers, presents the recent advances of hydrogen PEM fuel cells accelerating the large-scale commercialization of PEM electrolysis, and considers the challenges that must be addressed before PEM electrolysis can become a commercially feasible option. Written by

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international scientists in PEM electrolysis and fuel cell research areas, this book addresses the demand for energy storage technologies that store intermittent renewable energy and offers the most complete and up-to-date information on PEM electrolysis technology and research. The authors: Cover the fundamental applications of PEM electrolysis Review the state-of-the-art technologies and challenges related to each of the components of the PEM electrolysis Address failure analysis and review available failure diagnostic tools Provide future direction for researchers and technology developers PEM Electrolysis for Hydrogen Production: Principles and Applications provides a fundamental understanding of the requirements and functionalities of certain components and attributes of the PEM electrolysis technology that are common for both PEM fuel cells' and electrolyzers' hydrogen applications for energy storage. Beneficial to students and professionals, the text serves as a handbook for identifying PEM electrolysis failure modes and diagnosing electrolyzer performance to improve efficiency and durability.

This report describes counterinsurgency strategies and practices and conditions in which U.S. small-footprint partnerships may succeed. Case studies of the Philippines and Pakistan reinforce quantitative findings and highlight challenges for the U.S. in influencing partners.

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