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KEY=CRUISE - ELENA LEON

ELEMENTARY HYDRAULICS

Thomson Learning Elementary Hydraulics is written for the undergraduate level and contains material to appeal to a diversified class of students. The book, divided into three parts, blends fluid mechanics, hydraulic science, and hydraulics engineering. The first part of the text draws upon fluid mechanics and summarizes the concepts deemed essential to the teaching of hydraulics. The second part builds on the first section while discussing the science of hydraulics. The third section looks at the engineering practice of hydraulics and illustrates practical applications of the material covered in the text. In addition to these applications, the text contains a number of numerical problems and a reading aid at the end of each chapter to enhance student learning.

ESSENTIALS OF HYDRAULICS

Cambridge University Press Concise yet thorough look at hydraulics and hydraulic engineering. Includes many worked examples, case studies and end-of-chapter exercises.

PLANNING AND EVALUATION OF IRRIGATION PROJECTS

METHODS AND IMPLEMENTATION

Academic Press Planning and Evaluation of Irrigation Projects: Methods and Implementation presents the considerations, options and factors necessary for effective implementation of irrigation strategies, going further to provide methods for evaluating the efficiency of systems-in-place for remedial correction as needed. As the first book to take this lifecycle approach to agricultural irrigation, it includes real-world examples not only on natural resource availability concerns, but also on financial impacts and measurements. With 21 chapters divided into two sections, this book is a valuable resource for agricultural and hydrology engineers, conservation scientists and anyone seeking to implement and maintain irrigation systems. Uses real-world examples to present practical insights Incorporates both planning and evaluation for full-scope understanding and application Illustrates both potential benefits and limitations of irrigation solutions Provides potential means to increase crop productivity that can result in improved farm income

HANDBOOK OF APPLIED HYDROLOGY, SECOND EDITION

McGraw Hill Professional Fully Updated Hydrology Principles, Methods, and Applications Thoroughly revised for the first time in 50 years, this industry-standard resource features chapter contributions from a "who's who" of international hydrology experts. Compiled by a colleague of the late Dr. Chow, Chow's Handbook of Applied Hydrology, Second Edition, covers scientific and engineering fundamentals and presents all-new methods, processes, and technologies. Complete details are provided for the full range of ecosystems and models. Advanced chapters look to the future of hydrology, including climate change impacts, extraterrestrial water, social hydrology, and water security. Chow's Handbook of Applied Hydrology, Second Edition, covers: · The Fundamentals of Hydrology · Data Collection and Processing · Hydrology Methods · Hydrologic Processes and Modeling · Sediment and Pollutant Transport · Hydrometeorologic and Hydrologic Extremes · Systems Hydrology · Hydrology of Large River and Lake Basins · Applications and Design · The Future of Hydrology

FOX AND MCDONALD'S INTRODUCTION TO FLUID MECHANICS

John Wiley & Sons Through ten editions, Fox and McDonald's Introduction to Fluid Mechanics has helped students understand the physical concepts, basic principles, and analysis methods of fluid mechanics. This market-leading textbook provides a balanced, systematic approach to mastering critical concepts with the proven Fox-McDonald solution methodology. In-depth yet accessible chapters present governing equations, clearly state assumptions, and relate mathematical results to corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the subject. Each comprehensive chapter includes numerous, easy-to-follow examples that illustrate good solution technique and explain challenging points. A broad range of carefully selected topics describe how to apply the governing equations to various problems, and explain physical concepts to enable students to model real-world fluid flow situations. Topics include flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery, and more. To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended problems that encourage students to apply fluid mechanics principles to the design of devices and systems.

AN INTRODUCTION TO APPLIED AND ENVIRONMENTAL GEOPHYSICS

John Wiley & Sons An Introduction to Applied and Environmental Geophysics, 2nd Edition, describes the rapidly developing field of near-surface geophysics. The book covers a range of applications including mineral, hydrocarbon and groundwater exploration, and emphasises the use of geophysics in civil engineering and in environmental investigations. Following on from the international popularity of the first edition, this new, revised, and much expanded edition contains additional case histories, and descriptions of geophysical techniques not previously included in such textbooks. The level of mathematics and physics is deliberately kept to a minimum but is described qualitatively within the text. Relevant mathematical expressions are separated into boxes to supplement the text. The book is profusely illustrated with many figures, photographs and line drawings, many never previously published. Key source literature is provided in an extensive reference section; a list of web addresses for key organisations is also given in an appendix as a valuable additional resource. Covers new techniques such as Magnetic Resonance Sounding, Controlled-Source EM, shear-wave seismic refraction, and airborne gravity and EM techniques Now includes radioactivity surveying and more discussions of down-hole geophysical methods; hydrographic and Sub-Bottom Profiling surveying; and Unexploded Ordnance detection Expanded to include more forensic, archaeological, glaciological, agricultural and bio-geophysical applications Includes more information on physio-chemical properties of geological, engineering and environmental materials Takes a fully global approach Companion website with additional resources available at www.wiley.com/go/reynolds/introduction2e Accessible core textbook for undergraduates as well as an ideal reference for industry professionals The second edition is ideal for students wanting a broad introduction to the subject and is also designed for practising civil and geotechnical engineers, geologists, archaeologists and environmental scientists who need an overview of modern geophysical methods relevant to their discipline. While the first edition was the first textbook to provide such a comprehensive coverage of environmental geophysics, the second edition is even more far ranging in terms of techniques, applications and case histories.

RECREATIONAL WATER ILLNESSES

MDPI This book is a printed edition of the Special Issue "Recreational Water Illnesses" that was published in IJERPH

APPLICATIONS AND CHALLENGES OF GEOSPATIAL TECHNOLOGY

POTENTIAL AND FUTURE TRENDS

Springer This book advances the scientific understanding and application of space-based technologies to address a variety of areas related to sustainable development; including environmental systems analysis, environmental management, clean processes, green chemistry, and green engineering. Geo-spatial techniques have gained considerable interest in recent decades among the earth and environmental science communities for solving and understanding various complex problems and approaches towards sustainable technologies. The book encompasses several scopes of interests on sustainable technologies in areas such as water resources, forestry, remote sensing, meteorology, atmospheric and oceanic modeling, environmental engineering and management, civil engineering, air and environmental pollution, water quality problems, etc. The book will appeal to people with an interest in geo-spatial techniques, sustainable development and other diverse backgrounds within earth and environmental sciences field.

POWER, CONFLICT AND CRIMINALISATION

Routledge A unique, accessible text that introduces a broad readership to critical research into 'crime', 'deviance' and conflict through contemporary, in-depth case studies. Tracing the authoritarian legacy of policing civil disturbances, harsh regimes of punishment, deaths in custody and prison protest, diverse issues such as the demonisation of children, the imprisonment of women and the 'war on terror' are explored and analysed.

UNDERSTANDING THE GLOBAL ENERGY CRISIS

Purdue University Press We are facing a global energy crisis caused by world population growth, an escalating increase in demand, and continued dependence on fossil-based fuels for generation. It is widely accepted that increases in greenhouse gas concentration levels, if not reversed, will result in major changes to world climate with consequential effects on our society and economy. This is just the kind of intractable problem that Purdue University's Global Policy Research Institute seeks to address in the Purdue Studies in Public Policy series by promoting the engagement between policy makers and experts in fields such as engineering and technology. Major steps forward in the development and use of technology are required. In order to achieve solutions of the required scale and magnitude within a limited timeline, it is essential that engineers be not only technologically-adept but also aware of the wider social and political issues that policy-makers face. Likewise, it is also imperative that policy makers liaise closely with the academic community in order to realize advances. This book is designed to bridge the gap between these two groups, with a particular emphasis on educating the socially-conscious engineers and technologists of the future. In this accessibly-written volume, central issues in global energy are discussed through interdisciplinary dialogue between experts from both North America and Europe. The first section provides an overview of the nature of the global energy crisis approached from historical, political, and sociocultural perspectives. In the second section, expert contributors outline the technology and policy issues facing the development of major conventional and renewable energy sources. The third and final section explores policy and technology challenges and opportunities in the distribution and consumption of energy, in sectors such as transportation and the built environment. The book's epilogue suggests some future scenarios in energy distribution and

use.

FUNDAMENTALS OF AVIATION LAW

McGraw Hill Professional Case studies for each major topic are supplemented by discussion and questions for classroom review Instructor's CD-ROM contains PowerPoint presentations and chapter outlines

IRRIGATED AGRICULTURE IN EGYPT

PAST, PRESENT AND FUTURE

Springer This book targets the issue of water scarcity in Egypt as a typical example of the world water crisis. Today, the available water resource is facing its limit because of rapid increase in water demand as a result of population growth and changes in peoples' life-style. The basic idea to solve the problem of water scarcity is that the irrigation sector, the biggest user of water, should increase water use efficiency. However, the real problem is how this can be achieved in view of the crucial need for water in this sector. This book addresses this challenge through case studies from the Nile delta in Egypt. The water problem in the Nile delta, the major source for water in Egypt, is discussed in this book from all its various aspects. This book covers the situation before and after the advent of the Aswan High Dam, so that the reader understands the entire development. Another special feature are the extensive and scientific descriptions of contemporary topics in water and agriculture, especially from the viewpoint of water saving and sustainability. These descriptions are based on field experiments and surveys in a six-year international research project. Topics of this book are local, but their implications are global.

A THESAURUS OF ENGLISH WORD ROOTS

Rowman & Littlefield Horace G. Danner's A Thesaurus of English Word Roots is a compendium of the most-used word roots of the English language. As Timothy B. Noone notes in his foreword: "Dr. Danner's book allows you not only to build up your passive English vocabulary, resulting in word recognition knowledge, but also gives you the rudiments for developing your active English vocabulary, making it possible to infer the meaning of words with which you are not yet acquainted. Your knowledge can now expand and will do so exponentially as your awareness of the roots in English words and your corresponding ability to decode unfamiliar words grows apace. This is the beginning of a fine mental linguistic library: so enjoy!" In A Thesaurus of English Word Roots, all word roots are listed alphabetically, along with the Greek or Latin words from which they derive, together with the roots' original meanings. If the current meaning of an individual root differs from the original meaning, that is listed in a separate column. In the examples column, the words which contain the root are then listed, starting with their prefixes, for example, dysacusia, hyperacusia. These root-starting terms then are followed by terms where the root falls behind the word, e.g., acouesthesia and acoumeter. These words are followed by words where the root falls in the middle or the end, as in such terms as bradyacusia and odyacusis.. In this manner, A Thesaurus of English Word Roots places the word in as many word families as there are elements in the word. This work will interest linguists and philologists and anyone interested in the etymological aspects of English language.

DEVELOPMENT OF WATER RESOURCES IN INDIA

Springer This proceedings volume, with more than 30 chapters, is based on the presentations given at the National Conference on Water Resources and Hydropower (WRHP-2016) and represents the state-of-the-art in water resources in India. It includes experimental investigations, field studies, theoretical developments, numerical methods, as well as engineering achievements in water resources. The contributions are organised under four main topics: • Water Resources and Management: covers the issues related to water resources planning and management, water conservation, flood mitigation, policies and governance, conflict over rivers and planning of groundwater evolution, Assessment of Sedimentation, Surface water quality, Rainfall assessment, • Climate Change and Global Warming: includes chapters on the impact of climate on water resources and groundwater, hydrological impacts of climate change, Ground Water Contaminants, Assessment of Evaporation and evapotranspiration effects on global warming • Hydraulic Structures: presents contributions on fluvial hydraulics, flow through Weirs, Open Channel flow, river flood control, scour and erosion, dam and downstream block failures and protection, Losses in pipes By combining these topics, the book provides a valuable resource for practitioners and researchers, including field engineers, academicians, planners, health specialists, disaster managers, decision makers and policy makers engaged in various aspects of water resources and hydropower. The WRHP-2016 was organised in association with the Indian Institute of Technology, Roorkee, Utrakhand Jal Vidyut Nigam Limited and the Indian Society for Hydraulics, Pune and was held in University of Petroleum and Energy Studies, Dehradun, India from June 17-18, 2016.

EVIDENCE-BASED PHYSICAL DIAGNOSIS

Saunders Clinical reference that takes an evidence-based approach to the physical examination. Updated to reflect the latest advances in the science of physical examination, and expanded to include many new topics.

RECONSTRUCTING POLITICAL ECONOMY

THE GREAT DIVIDE IN ECONOMIC THOUGHT

Routledge This volume offers an original perspective on the questions the great economists have asked and looks at their significance for today's world. Written in a provocative and accessible style, it examines how the diverse traditions of political economy have conceptualised economic issues, events and theory. Going beyond the orthodoxies of mainstream economics it shows the relevance of political economy to the debates on the economic meaning of our times. Reconstructing Political Economy is a timely and thought-provoking contribution to a political economy for our time. In this light it offers fresh insights into such issues as modern theories of growth, the historic relations between state and market and the significance of globalisation for modern societies.

A SHORT HISTORY OF THE MUGHAL EMPIRE

Bloomsbury Academic The Mughal Empire dominated India politically, culturally, socially, economically and environmentally, from its foundation by Babur, a Central Asian adventurer, in 1526 to the final trial and exile of the last emperor Bahadur Shah Zafar at the hands of the British in 1858. Throughout the empire's three centuries of rise, preeminence and decline, it remained a dynamic and complex entity within and against which diverse peoples and interests conflicted. The empire's significance continues to be controversial among scholars and politicians with fresh and exciting new insights, theories and interpretations being put forward in recent years. This book engages students and general readers with a clear, lively and informed narrative of the core political events, the struggles and interactions of key individuals, groups and cultures, and of the contending historiographical arguments surrounding the Mughal Empire.

DESIGN THEORY

METHODS AND ORGANIZATION FOR INNOVATION

Springer This textbook presents the core of recent advances in design theory and its implications for design methods and design organization. Providing a unified perspective on different design methods and approaches, from the most classic (systematic design) to the most advanced (C-K theory), it offers a unique and integrated presentation of traditional and contemporary theories in the field. Examining the principles of each theory, this guide utilizes numerous real life industrial applications, with clear links to engineering design, industrial design, management, economics, psychology and creativity. Containing a section of exams with detailed answers, it is useful for courses in design theory, engineering design and advanced innovation management. "Students and professors, practitioners and researchers in diverse disciplines, interested in design, will find in this book a rich and vital source for studying fundamental design methods and tools as well as the most advanced design theories that work in practice". Professor Yoram Reich, Tel Aviv University, Editor-in-Chief, Research In Engineering Design. "Twenty years of research in design theory and engineering have shown that training in creative design is indeed possible and offers remarkably operational methods - this book is indispensable for all leaders and practitioners who wish to strengthen their innovation capacity of their company." Pascal Daloz, Executive Vice President, Dassault Systèmes

DISCRETE SIGNALS AND INVERSE PROBLEMS

AN INTRODUCTION FOR ENGINEERS AND SCIENTISTS

John Wiley & Sons Discrete Signals and Inverse Problems examines fundamental concepts necessary to engineers and scientists working with discrete signal processing and inverse problem solving, and places emphasis on the clear understanding of algorithms within the context of application needs. Based on the original 'Introduction to Discrete Signals and Inverse Problems in Civil Engineering', this expanded and enriched version: combines discrete signal processing and inverse problem solving in one book covers the most versatile tools that are needed to process engineering and scientific data presents step-by-step 'implementation procedures' for the most relevant algorithms provides instructive figures, solved examples and insightful exercises Discrete Signals and Inverse Problems is essential reading for experimental researchers and practicing engineers in civil, mechanical and electrical engineering, non-destructive testing and instrumentation. This book is also an excellent reference for advanced undergraduate students and graduate students in engineering and science.

HYDROGEN AIRCRAFT TECHNOLOGY

Routledge Liquid hydrogen is shown to be the ideal fuel for civil transport aircraft, as well as for many types of military aircraft. Hydrogen Aircraft Technology discusses the potential of hydrogen for subsonic, supersonic, and hypersonic applications. Designs with sample configurations of aircraft for all three speed categories are presented, in addition to performance comparisons to equivalent designs for aircraft using conventional kerosine-type fuel and configurations for aircraft using liquid methane fuel. Other topics discussed include conceptual designs of the principal elements of fuel containment systems required for cryogenic fuels, operational elements (e.g., pumps, valves, pressure regulators, heat exchangers, lines and fittings), modifications for turbine engines to maximize the benefit of hydrogen, safety aspects compared to kerosine and methane fueled designs, equipment and facility designs for servicing hydrogen-fueled aircraft, production methods for liquid hydrogen, and the environmental advantages for using liquid hydrogen. The book also presents a plan for conducting the necessary development of technology and introducing hydrogen fuel into the worldwide civil air transport industry. Hydrogen Aircraft Technology will provide fascinating reading for anyone interested in aircraft and hydrogen fuel designs.

SMARTER FASTER BETTER

THE SECRETS OF BEING PRODUCTIVE IN LIFE AND BUSINESS

Random House In the international bestseller *The Power of Habit*, Pulitzer Prize-winning journalist Charles Duhigg explained why we do what we do. In *Smarter Faster Better*, he applies the same relentless curiosity, rigorous reporting and rich storytelling to explain how we can get better at the things we do. The result is a groundbreaking exploration of the science of productivity. A group of data scientists at Google embark on a four-year study of how the best teams function, and find that how a group interacts is much more important than who is in the group. A Marine Corps general, faced with low morale among recruits, reimagines boot camp - and discovers that instilling a 'bias toward action' can turn even the most directionless teenagers into self-motivating achievers. The filmmakers behind Disney's *Frozen* are on the brink of catastrophe - until they shake up their team in just the right way, spurring a creative breakthrough that leads to one of the highest-grossing movies of all time. What do these people have in common? They know that productivity relies on making certain choices. The way we frame our daily decisions; the big ambitions we embrace and the easy goals we ignore; the cultures we establish as leaders to drive innovation: these are the things that separate the merely busy from the genuinely productive. At the core of *Smarter Faster Better* are eight key concepts - from motivation and goal-setting to focus and decision-making - that explain why some people and companies get so much done. Drawing on the latest findings in neuroscience, psychology and behavioural economics - as well as the experiences of CEOs, educational reformers, four-star generals, airplane pilots and Broadway songwriters - this painstakingly researched book explains that the most productive people, companies and organizations don't merely act differently. They view the world, and their choices, in profoundly different ways.

SIMULATION AND MODELING METHODOLOGIES, TECHNOLOGIES AND APPLICATIONS

7TH INTERNATIONAL CONFERENCE, SIMULTECH 2017 MADRID, SPAIN, JULY 26-28, 2017 REVISED SELECTED PAPERS

Springer This book highlights a set of selected, revised and extended papers from the 7th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2017), held in Madrid, Spain, on July 26 to 28, 2017. The conference brought together researchers, engineers and practitioners whose work involves methodologies in and applications of modeling and simulation. The papers showcased here represent the very best papers from the Conference, and report on a broad range of new and innovative solutions.

GROUND AND FLIGHT EVALUATION OF A SMALL-SCALE INFLATABLE-WINGED AIRCRAFT

A small-scale, instrumented research aircraft was flown to investigate the flight characteristics of inflatable wings. Ground tests measured the static structural characteristics of the wing at different inflation pressures, and these results compared favorably with analytical predictions. A research-quality instrumentation system was assembled, largely from commercial off-the-shelf components, and installed in the aircraft. Initial flight operations were conducted with a conventional rigid wing having the same dimensions as the inflatable wing. Subsequent flights were conducted with the inflatable wing. Research maneuvers were executed to identify the trim, aerodynamic performance, and longitudinal stability and control characteristics of the vehicle in its different wing configurations. For the angle-of-attack range spanned in this flight program.

COMADEM 89 INTERNATIONAL

PROCEEDINGS OF THE FIRST INTERNATIONAL CONGRESS ON CONDITION MONITORING AND DIAGNOSTIC ENGINEERING MANAGEMENT (COMADEM)

Springer Science & Business Media RajB KNRao Conference Director, Birmingham Polytechnic Condition Monitoring and Diagnostic Engineering Management (COMADEM) is a relatively new field that has already made its mark in a wide range of industries. But all the signs are that even more will be required of researchers in the field over the next decade, for COMADEM directly addresses a whole range of issues that are likely to become increasingly important to companies as competitiveness increases along with the uncertainties resulting from rapid technological change. Already for example, businesses are having to scrutinize the economics of plant and machinery in greater detail than ever before; reliability is becoming a crucial factor as the costs of unscheduled breakdowns rise and there is increasing pressure on companies to demonstrate and assure improved health and safety conditions, especially in light of the growing number of catastrophic accidents that have occurred throughout the world. Because it offers solutions to these and similar problems, COMADEM is now gaining an international reputation as a problem-solving, user-friendly and financially beneficial multi-discipline with immense potential. Many people at the senior management level are now convinced that COMADEM has much to offer and are wasting no time in reaping maximum benefit from the latest developments. The fact that the first UK informal seminar on COMADEM - COMADEM 88 - proved to be a great success and had a truly international flavour reflected this growing interest in the new field.

OPEN-CHANNEL FLOW

Springer Science & Business Media Open Channel Flow, 2nd edition is written for senior-level undergraduate and graduate courses on steady and unsteady open-channel flow. The book is comprised of two parts: Part I covers steady flow and Part II describes unsteady flow. The second edition features considerable emphasis on the presentation of modern methods for computer analyses; full coverage of unsteady flow; inclusion of typical computer programs; new problem sets and a complete solution manual for instructors.

INTIMATE RELATIONSHIPS

ISSUES, THEORIES, AND RESEARCH, SECOND EDITION

Psychology Press Intimate Relationships covers both classic and current material in a concise yet thorough and rigorous manner. Chapters range from attraction to love, attachment to jealousy, conflict to relationship dissolution — all written in a warm, personal, and engaging voice. Each chapter is organized around the major issues and relevant theories, in addition to a critical evaluation about the research. When appropriate, the authors discuss and evaluate popular ideas about relationship processes in the context of scientific research. This includes critical evaluations of evolutionary approaches to attraction, victim-based accounts of abuse, and the separate-cultures view of the sexes.

OUTBREAK INVESTIGATIONS AROUND THE WORLD

CASE STUDIES IN INFECTIOUS DISEASE FIELD EPIDEMIOLOGY

Jones & Bartlett Publishers Accounts of field investigations, with much related personal information, written by scientists working in the field of epidemiology.

RIVER FLOW 2012

CRC Press Rivers are complex entities. In addition to being valuable wildlife habitats, they support human activities by providing water for human usage, renewable energy and convenient transportation. Rivers may also pose threats to riverine communities, in the form of floods and other natural or man-induced hazards. Contemporary societies recognize their re

CONNECTOGRAPHY

MAPPING THE FUTURE OF GLOBAL CIVILIZATION

Random House From the visionary bestselling author of *The Second World* and *How to Run the World* comes a bracing and authoritative guide to a future shaped less by national borders than by global supply chains, a world in which the most connected powers—and people—will win. Connectivity is the most revolutionary force of the twenty-first century. Mankind is reengineering the planet, investing up to ten trillion dollars per year in transportation, energy, and communications infrastructure linking the world's burgeoning megacities together. This has profound consequences for geopolitics, economics, demographics, the environment, and social identity. Connectivity, not geography, is our destiny. In *Connectography*, visionary strategist Parag Mehta travels from Ukraine to Iran, Mongolia to North Korea, Pakistan to Nigeria, and across the Arctic Circle and the South China Sea to explain the rapid and unprecedented changes affecting every part of the planet. He shows how militaries are deployed to protect supply chains as much as borders, and how nations are less at war over territory than engaged in tugs-of-war over pipelines, railways, shipping lanes, and Internet cables. The new arms race is to connect to the most markets—a race China is now winning, having launched a wave of infrastructure investments to unite Eurasia around its new Silk Roads. The United States can only regain ground by fusing with its neighbors into a super-continental North American Union of shared resources and prosperity. *Connectography* offers a unique and hopeful vision for the future. Khanna argues that new energy discoveries and technologies have eliminated the need for resource wars; ambitious transport corridors and power grids are unscrambling Africa's fraught colonial borders; even the Arab world is evolving a more peaceful map as it builds resource and trade routes across its war-torn landscape. At the same time, thriving hubs such as Singapore and Dubai are injecting dynamism into young and heavily populated regions, cyber-communities empower commerce across vast distances, and the world's ballooning financial assets are being wisely invested into building an inclusive global society. Beneath the chaos of a world that appears to be falling apart is a new foundation of connectivity pulling it together. Praise for *Connectography* "Incredible . . . With the world rapidly changing and urbanizing, [Khanna's] proposals might be the best way to confront a radically different future."—*The Washington Post* "Clear and coherent . . . a well-researched account of how companies are weaving ever more complicated supply chains that pull the world together even as they squeeze out inefficiencies. . . . [He] has succeeded in demonstrating that the forces of globalization are winning."—Adrian Woolridge, *The Wall Street Journal* "Bold . . . With an eye for vivid details, Khanna has . . . produced an engaging geopolitical travelogue."—*Foreign Affairs* "For those who fear that the world is becoming too inward-looking, *Connectography* is a refreshing, optimistic vision."—*The Economist* "Connectivity has become a basic human right, and gives everyone on the planet the opportunity to provide for their family and contribute to our shared future. *Connectography* charts the future of this connected world."—Marc Andreessen, general partner, Andreessen Horowitz "Khanna's scholarship and foresight are world-class. A must-read for the next president."—Chuck Hagel, former U.S. secretary of defense This title has complex layouts that may take longer to download.

INDUSTRIAL USES OF STARCH AND ITS DERIVATIVES

Springer Science & Business Media The literature of starch has proliferated in the last ten years at an almost geometric rate and a number of important changes and developments in the technology of starch and its derivatives have taken place which makes it highly desirable to review these in some depth. The immensity of the subject determined the writer to seek the assistance of a number of prominent workers throughout the world. Where older work contains factual information of present value it has been retained, generally in the form of Additional References. These are brief abstracts which will help specialised searchers in a branch of the subject to complete the information given in the text. Inclusion of disjointed information can often lead to the loss of coherence and clarity, and the device of the Additional References, whilst allowing smooth presentation, also allows the inclusion of up-to-the-minute material appearing after the main text has been written. Apart from the immense amount of important practical and theoretical detail required to produce and use starch for many applications in a number of important industries, a thorough knowledge is also required of a number of aspects for the successful buying and selling of starch. This book was written and published contemporaneously with two others entitled *Starch Production Technology and Examination and Analysis of*

Starch and Starch Products. The three books together provide a wide coverage of starch technology and chemistry with the self-contained individual volumes providing precise information for specialist readers.

IMPACTS OF MARINE LITTER

Frontiers Media SA

THE NEXT ARMS RACE

CreateSpace With most of the world's advanced economies now stuck in recession; Western support for defense cuts and nuclear disarmament increasing; and a major emerging Asian power at odds with its neighbors and the United States; it is tempting to think our times are about to rhyme with a decade of similar woes—the disorderly 1930s. Might we again be drifting toward some new form of mortal national combat? Or, will our future more likely ape the near-half-century that defined the Cold War—a period in which tensions between competing states ebbed and flowed but peace mostly prevailed by dint of nuclear mutual fear and loathing? The short answer is, nobody knows. This much, however, is clear: The strategic military competitions of the next 2 decades will be unlike any the world has yet seen. Assuming U.S., Chinese, Russian, Israeli, Indian, French, British, and Pakistani strategic forces continue to be modernized and America and Russia continue to reduce their strategic nuclear deployments, the next arms race will be run by a much larger number of contestants—with highly destructive strategic capabilities far more closely matched and capable of being quickly enlarged than in any other previous period in history.

THE ROMANCE OF INDUSTRY AND INVENTION

Palala Press This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

PRACTICAL HYDROINFORMATICS

COMPUTATIONAL INTELLIGENCE AND TECHNOLOGICAL DEVELOPMENTS IN WATER APPLICATIONS

Springer Science & Business Media Hydroinformatics is an emerging subject that is expected to gather speed, momentum and critical mass throughout the forthcoming decades of the 21st century. This book provides a broad account of numerous advances in that field - a rapidly developing discipline covering the application of information and communication technologies, modelling and computational intelligence in aquatic environments. A systematic survey, classified according to the methods used (neural networks, fuzzy logic and evolutionary optimization, in particular) is offered, together with illustrated practical applications for solving various water-related issues. ...

LOGISTICAL ASIA

THE LABOUR OF MAKING A WORLD REGION

Springer This book explores how the management science of logistics changes working lives and contributes to the making of world regions. With a focus on the port of Kolkata and changing patterns of Asian regionalism, the volume examines how logistics entwine with political power, historical forces, labour movements, and new technologies. The contributors ask how logistical practices reconfigure both Asia's relation to the world and its internal logic of transport and communication. Building on critical perspectives that understand logistics as a political technology for producing and organizing space and power, *Logistical Asia* tracks how digital technologies and material infrastructure combine to remake urban and regional territories and produce new forms of governance and subjectivity.

TECHNOLOGY AND SAFETY OF MARINE SYSTEMS

Elsevier Traditionally society has regulated hazardous industries by detailed references to engineering codes, standards and hardware requirements. These days a risk-based approach is adopted. Risk analysis involves identifying hazards, categorizing the risks, and providing the necessary decision support to determine the necessary arrangements and measures to reach a "safe" yet economical operating level. When adopting such an approach the abundance of techniques available to express risk levels can often prove confusing and inadequate. This highly practical guide to safety and risk analysis in Marine Systems not only adds to the current techniques available, but more importantly identifies instances where traditional techniques fall short. Uncertainties that manifest within risk analysis are highlighted and alternative solutions presented. In addition to risk analysis techniques this book addresses influencing elements including: reliability, Maintenance Decision making and Human error. The highly practical approach of this title ensures it is accessible to the widest possible audience

GLOBAL REPORT ON DROWNING

PREVENTING A LEADING KILLER

World Health Publications The WHO Global report on drowning: preventing a leading killer highlights that 372,000 people drown worldwide each year. Drowning is among the ten leading causes of death for children and young people in every region of the world. The report sets out the evidence showing a range of effective drowning prevention strategies, and makes a number of recommendations for concrete measures to be taken by national and local governments. With the release of this report, WHO aims to galvanize attention and action to this issue by highlighting how collaboration across sectors can save lives.--Publisher description.

TECTONICS AND STRUCTURAL GEOLOGY: INDIAN CONTEXT

Springer This book presents a compilation of findings, review and original works, on the tectonic evolution and structural detail of several terrains in India. It captures the tectonic diversity of the Indian terrain, including tectonics of India's coastal areas, the tectonic evolution of Gondwana and Proterozoic (Purana) basins. It also describes the research results of the Indian craton's geo-history, Tertiary Bengal basin, and also the Himalayan collisional zone. Thus the book covers the deformation history of Indian terrain involving strike slip, compressional and extensional tectonics, and ductile and brittle shear deformations.

INTELLIGENT PROJECTS USING PYTHON

9 REAL-WORLD AI PROJECTS LEVERAGING MACHINE LEARNING AND DEEP LEARNING WITH TENSORFLOW AND KERAS

Packt Publishing Ltd Implement machine learning and deep learning methodologies to build smart, cognitive AI projects using Python Key FeaturesA go-to guide to help you master AI algorithms and concepts8 real-world projects tackling different challenges in healthcare, e-commerce, and surveillanceUse TensorFlow, Keras, and other Python libraries to implement smart AI applicationsBook Description This book will be a perfect companion if you want to build insightful projects from leading AI domains using Python. The book covers detailed implementation of projects from all the core disciplines of AI. We start by covering the basics of how to create smart systems using machine learning and deep learning techniques. You will assimilate various neural network architectures such as CNN, RNN, LSTM, to solve critical new world challenges. You will learn to train a model to detect diabetic retinopathy conditions in the human eye and create an intelligent system for performing a video-to-text translation. You will use the transfer learning technique in the healthcare domain and implement style transfer using GANs. Later you will learn to build AI-based recommendation systems, a mobile app for sentiment analysis and a powerful chatbot for carrying customer services. You will implement AI techniques in the cybersecurity domain to generate Captchas. Later you will train and build autonomous vehicles to self-drive using reinforcement learning. You will be using libraries from the Python ecosystem such as TensorFlow, Keras and more to bring the core aspects of machine learning, deep learning, and AI. By the end of this book, you will be skilled to build your own smart models for tackling any kind of AI problems without any hassle. What you will learnBuild an intelligent machine translation system using seq-2-seq neural translation machinesCreate AI applications using GAN and deploy smart mobile apps using TensorFlowTranslate videos into text using CNN and RNNImplement smart AI Chatbots, and integrate and extend them in several domainsCreate smart reinforcement, learning-based applications using Q-LearningBreak and generate CAPTCHA using Deep Learning and Adversarial Learning Who this book is for This book is intended for data scientists, machine learning professionals, and deep learning practitioners who are ready to extend their knowledge and potential in AI. If you want to build real-life smart systems to play a crucial role in every complex domain, then this book is what you need. Knowledge of Python programming and a familiarity with basic machine learning and deep learning concepts are expected to help you get the most out of the book

INTELLIGENT ENVIRONMENTAL SENSING

Springer Developing environmental sensing and monitoring technologies become essential especially for industries that may cause severe contamination. Intelligent environmental sensing uses novel sensor techniques, intelligent signal and data processing algorithms, and wireless sensor networks to enhance environmental sensing and monitoring. It finds applications in many environmental problems such as oil and gas, water quality, and agriculture. This book addresses issues related to three main approaches to intelligent environmental sensing and discusses their latest technological developments. Key contents of the book include: Agricultural monitoring Classification, detection, and estimation Data fusion Geological monitoring Motor monitoring Multi-sensor systems Oil reservoirs monitoring Sensor notes Water quality monitoring Wireless sensor network protocol.