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RADIATION DETECTION AND MEASUREMENT

John Wiley & Sons This is the resource that engineers turn to in the study of radiation detection. The fourth edition takes into account the technical developments that continue to enhance the instruments and techniques available for the detection and spectroscopy of ionizing radiation. New coverage is presented on ROC curves, micropattern gas detectors, new sensors for scintillation light, and the excess noise factor. Revised discussions are also included on TLDs and cryogenic spectrometers, radiation backgrounds, and the VME standard. Engineers will gain a strong understanding of the field with this updated book.

RADIATION DETECTION AND MEASUREMENT

John Wiley & Sons Incorporated A Classic Text on Radiation Detection and Measurement Now Updated and Expanded Building on the proven success of this widely-used text, the Third Edition will provide you with a clear understanding of the methods and instrumentation used in the detection and measurement of ionizing radiation. It provides in-depth coverage of the basic principles of radiation detection as well as illustrating their application in a full set of modern instruments. In addition to a complete description of well-established detection and spectroscopic methods, many recently developed approaches are also explored. These include extensive new discussions of semiconductor detectors with unique properties, recently developed scintillation materials and photomultiplier tubes, and several gas-filled detectors of new design. Many other updates and additions have been made throughout the text and two appendices have been added. Over 100 new figures and tables have been included. Key Features of the Third Edition * Every chapter has been updated with extensive addition of new references to relevant articles in the scientific literature. * A number of new detection techniques have been added, strengthening the status of the text as the most comprehensive coverage of the topic to be found in any single book. * The writing style has maintained the readability that has attracted favorable response from readers and reviewers of the earlier editions. * The author uses his extensive research experience in radiation measurements, nuclear instrumentation, and radiation imaging to provide you with an invaluable resource.

ACCELERATOR AND RADIATION PHYSICS

ALPHA SCIENCE INTERNATIONAL LIMITED ACCELERATOR AND RADIATION PHYSICS encompasses radiation shielding design and strategies for hadron therapy accelerators, neutron facilities and laser based accelerators. A fascinating article describes detailed transport theory and its application to radiation transport. Detailed information on planning and design of a very high energy proton accelerator can be obtained from the article on radiological safety of J-PARC. Besides safety for proton accelerators, the book provides information on radiological safety issues for electron synchrotron and prevention and preparedness for radiological emergencies. Different methods for neutron dosimetry including LET based monitoring, time of flight spectrometry, track detectors are documented alongwith newly measured experimental data on radiation interaction with dyes, polymers, bones and other materials. Design of deuteron accelerator, shielding in beam line hutches in synchrotron and 14 MeV neutron generator, various radiation detection methods, their characterization, dose mapping procedures and simulation of radiation environment are also discussed.

REVIEW OF PROGRESS IN QUANTITATIVE NONDESTRUCTIVE EVALUATION

VOLUME 14A / 14B

Springer Science & Business Media These Proceedings, consisting of Parts A and B, contain the edited versions of most of the papers presented at the annual Review of Progress in Quantitative Nondestructive Evaluation held at Snowmass Village, Colorado, on July 31 to August 4, 1994. The Review was organized by the Center for NDE at Iowa State University, in cooperation with the Ames Laboratory of the US DOE, the Materials Directorate of the Wright Laboratory, Wright-Patterson Air Force Base, the American Society of Nondestructive Testing, the Department of Energy, the National Institute of Standards and Technology, the Federal Aviation Administration, the National Science Foundation Industry/University Cooperative Research Centers, and the Working Group in Quantitative NDE. This year's Review of Progress in QNDE was attended by approximately 450 participants from the U.S. and many foreign countries who presented over 360 papers. The meeting was divided into 36 sessions, with as many as four sessions running concurrently. The Review covered all phases of NDE research and development from fundamental investigations to engineering applications or inspection systems, and it included many important methods of inspection science from acoustics to x-rays. In the last eight to ten years, the Review has stabilized at about its current size, which most participants seem to agree is large enough to permit a full-scale overview of the latest developments, but still small enough to retain the collegial atmosphere which has marked the Review since its inception.

LEARNING FROM FUKUSHIMA

NUCLEAR POWER IN EAST ASIA

ANU Press Learning from Fukushima began as a project to respond in a helpful way to the March 2011 triple disaster (earthquake, tsunami, and nuclear meltdown) in north-eastern Japan. It evolved into a collaborative and comprehensive investigation of whether nuclear power was a realistic energy option for East Asia, especially for the 10 member-countries of ASEAN, none of which currently has an operational nuclear power plant. We address all the questions that a country must ask in considering the possibility of nuclear power, including cost of construction, staffing, regulation and liability, decommissioning, disposal of nuclear waste, and the impact on climate change. The authors are physicists, engineers, biologists, a public health physician, and international relations specialists. Each author presents the results of their work.

FACTORIES OF THE FUTURE

THE ITALIAN FLAGSHIP INITIATIVE

Springer This book is open access under a CC BY 4.0 license.This book presents results relevant in the manufacturing research field, that are mainly aimed at closing the gap between the academic investigation and the industrial application, in collaboration with

PRE-INCIDENT INDICATORS OF TERRORIST INCIDENTS

THE IDENTIFICATION OF BEHAVIORAL, GEOGRAPHIC AND TEMPORAL PATTERNS OF PREPARATORY CONDUCT

DIANE Publishing This is a print on demand edition of a hard to find publication. Explores whether sufficient data exists to examine the temporal and spatial relationships that existed in terrorist group planning, and if so, could patterns of preparatory conduct be identified? About one-half of the terrorists resided, planned, and prepared for terrorism relatively close to their eventual target. The terrorist groups existed for 1,205 days from the first planning meeting to the date of the actual/planned terrorist incident. The planning process for specific acts began 2-3 months prior to the terrorist incident. This study examined selected terrorist groups/incidents in the U.S. from 1980-2002. It provides for the potential to identify patterns of conduct that might lead to intervention prior to the commission of the actual terrorist incidents. Illustrations.

PHOTONEUTRON SOURCES

URETERIC STENTING

John Wiley & Sons The only book dedicated to this important area of urology, Ureteric Stenting comprehensively reviews the entire topic, providing highly specialized advice to enable outstanding clinical management of patients. All aspects of ureteric stenting are covered, from basic to complex, giving urologists, nephrologists and trainees an authoritative and up-to-date guide on best clinical practice.

MEGGS' HISTORY OF GRAPHIC DESIGN

John Wiley & Sons The bestselling graphic design reference, updated for the digital age Meggs' History of Graphic Design is the industry's unparalleled, award-winning reference. With over 1,400 high-quality images throughout, this visually stunning text guides you through a saga of artistic innovators, breakthrough technologies, and groundbreaking developments that define the graphic design field. The initial publication of this book was heralded as a publishing landmark, and author Philip B. Meggs is credited with significantly shaping the academic field of graphic design. Meggs presents compelling, comprehensive information enclosed in an exquisite visual format. The text includes classic topics such as the invention of writing and alphabets, the origins of printing and typography, and the advent of postmodern design. This new sixth edition has also been updated to provide: The latest key developments in web, multimedia, and interactive design Expanded coverage of design in Asia and the Middle East Emerging design trends and technologies Timelines framed in a broader historical context to help you better understand the evolution of contemporary graphic design Extensive ancillary materials including an instructor's manual, expanded image identification banks, flashcards, and quizzes You can't master a field without knowing the history. Meggs' History of Graphic Design presents an all-inclusive, visually spectacular arrangement of graphic design knowledge for students and professionals. Learn the milestones, developments, and pioneers of the trade so that you can shape the future.

VIRTUAL TEAMS THAT WORK

CREATING CONDITIONS FOR VIRTUAL TEAM EFFECTIVENESS

John Wiley & Sons Virtual Teams That Work offers a much-needed, comprehensive guidebook for business leaders and managers who want to create the organizational conditions that will help virtual teams thrive. Each chapter in this important book focuses on best practices and includes case studies and illustrative examples from a wide variety of companies, including British Petroleum, Lucent Technologies, Ramtech, SoftCo, and Whirlpool Corporation. These real-life examples demonstrate how the principles identified in the book play out within virtual teams. Virtual Teams That Work shows how organizations can put in place the structure to help team members who speak different languages and have different cultural values develop effective ways of communicating when there is little opportunity for the members to meet face-to-face. The authors also reveal how organizations can implement performance management and reward systems that will motivate team members to cooperate across multiple boundaries. And they offer the information to determine which technologies best fit a variety of virtual-team tasks and the level of information technology support needed.

HANDBOOK OF DRUG METABOLISM, THIRD EDITION

CRC Press The second edition of a bestseller, this book presents the latest innovative research methods that help break new ground by applying patterns, reuse, and design science to research. The book relies on familiar patterns to provide the solid fundamentals of various research philosophies and techniques as touchstones that demonstrate how to innovate research methods. Filled with practical examples of applying patterns to IT research with an emphasis on reusing research activities to save time and money, this book describes design science research in relation to other information systems research paradigms such as positivist and interpretivist research.

CHEMISTRY OF BIOLOGICALLY POTENT NATURAL PRODUCTS AND SYNTHETIC COMPOUNDS

John Wiley & Sons In view of their promising biological and pharmaceutical activities, natural product inspired and heterocyclic compounds have recently gained a reputation in the field of medicinal chemistry. Over the past decades, intensive research efforts have been ongoing to understand the synthesis, biochemistry and engineering involved in their preparation and action mechanisms. Several novel natural product derivatives, heterocyclic and other synthetic compounds, have been reported to have shown interesting biological activities including anticancer, antimicrobial, anti-inflammatory, anti-glycemic, anti-allergy and antiviral etc. Chemistry of Biologically Potent Natural Products and Synthetic Compounds provides up-to-date information on new developments and most recent medicinal applications of the natural products and derivatives, as well as the chemistry and synthesis of heterocyclic and other related compounds.

COSMIC RAYS AT EARTH

Elsevier In 1912 Victor Franz Hess made the revolutionary discovery that ionizing radiation is incident upon the Earth from outer space. He showed with ground-based and balloon-borne detectors that the intensity of the radiation did not change significantly between day and night. Consequently, the sun could not be regarded as the sources of this radiation and the question of its origin remained unanswered. Today, almost one hundred years later the question of the origin of the cosmic radiation still remains a mystery. Hess' discovery has given an enormous impetus to large areas of science, in particular to physics, and has played a major role in the formation of our current understanding of universal evolution. For example, the development of new fields of research such as elementary particle physics, modern astrophysics and cosmology are direct consequences of this discovery. Over the years the field of cosmic ray research has evolved in various directions: Firstly, the field of particle physics that was initiated by the discovery of many so-called elementary particles in the cosmic radiation. There is a strong trend from the accelerator physics community to reenter the field of cosmic ray physics, now under the name of astroparticle physics. Secondly, an important branch of cosmic ray physics that has rapidly evolved in conjunction with space exploration concerns the low energy portion of the cosmic ray spectrum. Thirdly, the branch of research that is concerned with the origin, acceleration and propagation of the cosmic radiation represents a great challenge for astrophysics, astronomy and cosmology. Presently very popular fields of research have rapidly evolved, such as high-energy gamma ray and neutrino astronomy. In addition, high-energy neutrino astronomy may soon initiate as a likely spin-off neutrino tomography of the Earth and thus open a unique new branch of geophysical research of the interior of the Earth. Finally, of considerable interest are the biological and medical aspects of the cosmic radiation because of its ionizing character and the inevitable irradiation to which we are exposed. This book is a reference manual for researchers and students of cosmic ray physics and associated fields and phenomena. It is not intended to be a tutorial. However, the book contains an adequate amount of background materials that its content should be useful to a broad community of scientists and professionals. The present book contains chiefly a data collection in compact form that covers the cosmic radiation in the vicinity of the Earth, in the Earth's atmosphere, at sea level and underground. Included are predominantly experimental but also theoretical data. In addition the book contains related data, definitions and important relations. The aim of this book is to offer the reader in a single volume a readily available comprehensive set of data that will save him the need of frequent time consuming literature searches.

VALUES IN HERITAGE MANAGEMENT

EMERGING APPROACHES AND RESEARCH DIRECTIONS

Getty Publications Bringing together leading conservation scholars and professionals from around the world, this volume offers a timely look at values-based approaches to heritage management. Over the last fifty years, conservation professionals have confronted increasingly complex political, economic, and cultural dynamics. This volume, with contributions by leading international practitioners and scholars, reviews how values-based methods have come to influence conservation, takes stock of emerging approaches to values in heritage practice and policy, identifies common challenges and related spheres of knowledge, and proposes specific areas in which the development of new approaches and future research may help advance the field.

LITIGATION SERVICES HANDBOOK

THE ROLE OF THE FINANCIAL EXPERT

John Wiley & Sons *Litigation Services Handbook, Fourth Edition* is referred to as the litigation bible. Its nearly 50 chapters read like a who's who in law and accounting. The handbook includes all aspects of litigation services, including current environments, the process itself, a wealth of cases, how to prove damages, and practical considerations of court appearances. The new edition has a heavy focus on fraud investigations and complying with Sarbanes-Oxley requirements.

UNCONVENTIONAL WARFARE (SPECIAL FORCES, BOOK 1)

Scholastic Inc. Discover the secret missions behind America's greatest conflicts. Danny Manion has been fighting his entire life. Sometimes with his fists. Sometimes with his words. But when his actions finally land him in real trouble, he can't fight the judge who offers him a choice: jail... or the army. Turns out there's a perfect place for him in the US military: the Studies and Observation Group (SOG), an elite volunteer-only task force comprised of US Air Force Commandos, Army Green Berets, Navy SEALs, and even a CIA agent or two. With the SOG's focus on covert action and psychological warfare, Danny is guaranteed an unusual tour of duty, and a hugely dangerous one. Fortunately, the very same qualities that got him in trouble at home make him a natural-born commando in a secret war. Even if almost nobody knows he's there. National Book Award finalist Chris Lynch begins a new, explosive fiction series based on the real-life, top-secret history of US black ops.

OPAL PLUMSTEAD

Random House From the beloved children's author of *Hetty Feather*, *Tracy Beaker* and *Rose Rivers*. Opal Plumstead might be plain, but she has always been fiercely intelligent. Yet her scholarship and dreams of university are snatched away when her father is sent to prison, and fourteen-year-old Opal must start work at the Fairy Glen sweet factory to support her family. She struggles to get along with her other workers, who think she's snobby and stuck up. But Opal idolises Mrs Roberts, the factory's beautiful, dignified owner. The best thing about Mrs Roberts? She's a suffragette! Opal's world is opened to Mrs Pankhurst, and the fight to give women the right to vote. And when Opal meets Morgan, Mrs Roberts' handsome son, and heir to Fairy Glen- she believes she's found her soulmate. But the First World War is about to begin, and will change Opal's life for ever. A brilliantly gripping wartime story from the bestselling, award-winning Jacqueline Wilson.

UNITED STATES CIVIL AIRCRAFT REGISTER

THE WRITINGS OF JOSEP LLUÍS SERT

Yale University Press "Josep Lluís Sert (1902-1983) was the last president of CIAM (International Congresses of Modern Architecture) and dean of the Harvard University Graduate School of Design from 1953 to 1969, where he founded the discipline of urban design. His writings offer a new view of his activities in architecture and urban planning, and provide the intellectual context for his own work as an architect, much of which is still controversial and often poorly understood. This book includes 16 essays dating from 1951 to 1977, ten of which are previously unpublished. The Writings of Josep Lluís Sert illuminates Sert's contributions to 20th-century architecture, urban design, and design pedagogy, and makes clear the similarities and differences between his ideas and those of his mentor, Le Corbusier. The essays reveal Sert's advocacy both for pedestrian urbanism and for planning in relation to the natural environment, ideas that have become important issues in contemporary urban design. Each text is introduced by the editor, Eric Mumford, a scholar of CIAM, Sert, and modern urbanism."--Publisher's website.

THE SOCIETY OF UNRELENTING VIGILANCE

Egmont USA Thirteen-year-old Theo, who has lived in seclusion his entire life, discovers he is the descendant of the Candle Man, a Victorian vigilante with the ability to melt criminals with a single touch.

THE LAST PROTECTOR (JAMES MARWOOD & CAT LOVETT, BOOK 4)

HarperCollins From the No.1 Sunday Times bestselling author of *The Ashes of London* comes the next book in the phenomenally successful series following James Marwood and Cat Lovett.

MANAGEMENT OF GENETIC SYNDROMES

John Wiley & Sons The bestselling guide to the medical management of common genetic syndromes —now fully revised and expanded A review in the *American Journal of Medical Genetics* heralded the first edition of *Management of Genetic Syndromes* as an "unparalleled collection of knowledge." Since publication of the first edition, improvements in the molecular diagnostic testing of genetic conditions have greatly facilitated the identification of affected individuals. This thorough revision of the critically acclaimed bestseller offers original insights into the medical management of sixty common genetic syndromes seen in children and adults, and incorporates new research findings and the latest advances in diagnosis and treatment of these disorders. Expanded to cover five new syndromes, this comprehensive new edition also features updates of chapters from the previous editions. Each chapter is written by an expert with extensive direct professional experience with that disorder and incorporates thoroughly updated material on new genetic findings, consensus diagnostic criteria, and management strategies. Edited by two of the field's most highly esteemed experts, this landmark volume provides: A precise reference of the physical manifestations of common genetic syndromes, clearly written for professionals and families Extensive updates, particularly in sections on diagnostic criteria and diagnostic testing, pathogenesis, and management A tried-and-tested, user-friendly format, with each chapter including information on incidence, etiology and pathogenesis, diagnostic criteria and testing, and differential diagnosis Up-to-date and well-written summaries followed by comprehensive management guidelines, with specific advice on evaluation and treatment for each system affected, including references to original studies and reviews A list of family support organizations and resources for professionals and families *Management of Genetic Syndromes, Third Edition* is a premier source to guide family physicians, pediatricians, internists, medical geneticists, and genetic counselors in the clinical evaluation and treatment of syndromes. It is also the reference of choice for ancillary health professionals, educators, and families of affected individuals looking to understand appropriate guidelines for the management of these disorders. From a review of the first edition: "An unparalleled collection of knowledge . . . unique, offering a gold mine of information." —*American Journal of Medical Genetics*

THE LAVENDER KEEPER

THE IMPOSSIBLE-TO-PUT-DOWN NOVEL OF WARTIME PROVENCE AND PARIS

Allison & Busby *Provence, 1942* Luc Bonet, brought up by a wealthy Jewish family in the foothills of the French Alps, finds his life shattered by the brutality of Nazi soldiers. Leaving his abandoned lavender fields behind, Luc joins the French Resistance in a quest for revenge. *Paris, 1943* Lisette Forestier is on a mission: to work her way into the heart of a senior German officer, and to infiltrate the very masterminds of the Gestapo. But can she balance the line between love and lies? The one thing Luc and Lisette hadn't counted on

was meeting each other. Who, if anyone, can be trusted - and will their own emotions become the greatest betrayers of all?

LASERS

University Science Books An introductory text on laser physics features an emphasis on basic laser principles and theory, without requiring a quantum mechanical background.

PRINCIPLES OF RADIATION INTERACTION IN MATTER AND DETECTION

World Scientific This book, like the first and second editions, addresses the fundamental principles of interaction between radiation and matter and the principles of particle detection and detectors in a wide scope of fields, from low to high energy, including space physics and medical environment. It provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter, detecting systems, performance of detectors and their optimization. The third edition includes additional material covering, for instance: mechanisms of energy loss like the inverse Compton scattering, corrections due to the Landau-Pomeranchuk-Migdal effect, an extended relativistic treatment of nucleus-nucleus screened Coulomb scattering, and transport of charged particles inside the heliosphere. Furthermore, the displacement damage (NIEL) in semiconductors has been revisited to account for recent experimental data and more comprehensive comparisons with results previously obtained. This book will be of great use to graduate students and final-year undergraduates as a reference and supplement for courses in particle, astroparticle, space physics and instrumentation. A part of the book is directed toward courses in medical physics. The book can also be used by researchers in experimental particle physics at low, medium, and high energy who are dealing with instrumentation. Errata(s) Errata Contents:Electromagnetic Interaction of Radiation in MatterNuclear Interactions in MatterRadiation Environments and Damage in Silicon SemiconductorsScintillating Media and Scintillator DetectorsSolid State DetectorsDisplacement Damage and Particle Interactions in Silicon DevicesGas Filled ChambersPrinciples of Particle Energy DeterminationSuperheated Droplet (Bubble) Detectors and CDM SearchMedical Physics Applications Readership: Researchers, academics, graduate students and professionals in accelerator, particle, astroparticle, space, applied and medical physics. Keywords:Interactions Between Radiation/Particles and Matter;High;Intermediate and Low Energy Particle Physics;Medical Physics;Radiation/Particle Detection;Space Physics;Detectors;Semiconductors;Calorimeters;Chambers;Scintillators;Silicon Pixels;Radiation Damage;Single Event Effects;Solar CellsKey Features:Covers state-of-the-art detection techniques and underlying theoriesAddresses topics of considerable use for professionals in medical physics, nuclear engineering, and environmental studiesContains an updated reference table set of physical properties

GENETIC ALGORITHMS IN SEARCH, OPTIMIZATION, AND MACHINE LEARNING

Addison-Wesley Professional A gentle introduction to genetic algorithms. Genetic algorithms revisited: mathematical foundations. Computer implementation of a genetic algorithm. Some applications of genetic algorithms. Advanced operators and techniques in genetic search. Introduction to genetics-based machine learning. Applications of genetics-based machine learning. A look back, a glance ahead. A review of combinatorics and elementary probability. Pascal with random number generation for fortran, basic, and cobol programmers. A simple genetic algorithm (SGA) in pascal. A simple classifier system(SCS) in pascal. Partition coefficient transforms for problem-coding analysis.

FLOOD WARNING

Orca Book Publishers Tom needs to be brave like his hero the Lone Ranger to save his family's dairy cows from a threatening flood.

MINESWEEPER (SPECIAL FORCES, BOOK 2)

Scholastic Inc. "All the sizzle, chaos, noise and scariness of war is clay in the hands of ace storyteller Lynch." -- Kirkus Reviews for the World War II series Discover the secret missions behind America's greatest conflicts.Fergus Frew thought he knew what to expect when he signed up with the Navy's demolitions team. But as the Korean War rages on, Fergus and his fellow divers -- AKA "frogmen" -- are tasked with more than just scouting mudflats. Soon they're planting mines. And sabotaging tunnels, bridges... and even fishing nets. Strangest of all, it falls to Fergus to transport a spy into the country -- and that means traveling far from Navy-controlled waters.But frogmen are amphibious. And Fergus may not realize it, but he's in a position to change the way the whole world thinks about combat.National Book Award finalist Chris Lynch continues his explosive fiction series based on the real-life, top-secret history of US black ops and today's heroic Navy SEALs.

FUNDAMENTALS OF GEOBIOLOGY

John Wiley & Sons 2012 PROSE Award, Earth Science: Honorable Mention For more than fifty years scientists have been concerned with theinterrelationships of Earth and life. Over the past decade,however, geobiology, the name given to this interdisciplinaryendeavour, has emerged as an exciting and rapidly expanding field,fuelled by advances in molecular phylogeny, a new microbial ecologymade possible by the molecular revolution, increasinglysophisticated new techniques for imaging and determining chemicalcompositions of solids on nanometer scales, the development ofnon-traditional stable isotope analyses, Earth systems science andEarth system history, and accelerating exploration of other planetswithin and beyond our solar system. Geobiology has many faces: there is the microbial weathering ofminerals, bacterial and skeletal biomineralization, the roles ofautotrophic and heterotrophic metabolisms in elemental cycling, the redox history in the oceans and its relationship to evolution andthe origin of life itself.. This book is the first to set out a coherent set of principlesthat underpin geobiology, and will act as a foundational text thatwill speed the dissemination of those principles. The chapters havebeen carefully chosen to provide intellectually rich but concisesummaries of key topics, and each has been written by one or moreof the leading scientists in that field.. Fundamentals of Geobiology is aimed at advancedundergraduates and graduates in the Earth and biological sciences,and to the growing number of scientists worldwide who have aninterest in this burgeoning new discipline. Additional resources for this book can be found at: <http://www.wiley.com/go/knoll/geobiology>"<http://www.wiley.com/go/knoll/geobiology/a>.

SMART TECHNOLOGIES FOR ENERGY, ENVIRONMENT AND SUSTAINABLE DEVELOPMENT

SELECT PROCEEDINGS OF ICSTEEED 2018

Springer This book comprises select proceedings of the International Conference on Smart Technologies for Energy, Environment, and Sustainable Development (ICSTEEED 2018). The chapters are broadly divided into three focus areas, viz. energy, environment, and sustainable development, and discusses the relevance and applications of smart technologies in these fields. A wide variety of topics such as renewable energy, energy conservation and management, energy policy and planning, environmental management, marine environment, green building, smart cities, smart transportation are covered in this book. Researchers and professionals from varied engineering backgrounds contribute chapters with an aim to provide economically viable solutions to sustainable development challenges. The book will prove useful for academics, professionals, and policy makers interested in sustainable development.