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## SLADE BRANDT

### Distributed Generation and its Implications for the Utility Industry Springer

Natural and human-induced environmental hazards are becoming increasingly prominent. The frequency of recorded natural disasters rose markedly during the last century, from about 100 per in the years up to 1940 to nearly 2800 during the 1990s. Africa is the only continent whose share of reported disasters has increased over the past decade. Several factors contribute to Africa's high vulnerability to disasters. These include the high rate of population growth, food insecurity, high levels of poverty, inappropriate use of natural resources, and failures of policy and institutional frameworks. Despite the huge negative impact of natural and human-induced hazards on Africa's development, little is done to prevent them. Disaster prevention contributes to lasting improvement in safety and sustainable livelihoods and is essential as part of integrated disaster management strategies. The provision of effective scientific input to policy formulation on various issues related to hazards and disasters is an ambitious undertaking. It requires the collaborative effort of the African scientific community to develop comprehensive long-term strategies and human capacity-building initiatives that will enable science to benefit society. This will further require: a) Building strong research and training institutions in Africa at national and regional levels; b) Facilitating the exchange of scientific information and sharing of ideas across borders; c) Strengthening the link between scientific research and policy making; d) Promoting outreach activities to build resilience to disaster risk; and e) Tapping the knowledge base of rural and urban communities. In this volume, the ICSU ROA has brought together selected African scientific researchers to share their views on policy direction for facing challenges linked to natural and human-induced hazards. The book is intended for policy advisers, environmental scientists, government officials and members of the general public with a special interest in environmental issues.

### Errorless 11 Years UPPSC General Studies Prelim Papers 1 & 2 Solved Papers (2010 - 20) 2nd Edition KIT Scientific Publishing

Droplets and Sprays Springer

Doctoral Student Skills Taylor & Francis

Professor Atiyah is one of the greatest living mathematicians and is renowned in the mathematical world. He is a recipient of the Fields Medal, the mathematical equivalent of the Nobel Prize, and is still actively involved in the mathematics community. His huge number of published papers, focusing on the areas of algebraic geometry and topology, have here been collected into seven volumes, with the first five volumes divided thematically and the sixth and seventh arranged by date. This seventh volume in Michael Atiyah's Collected Works contains a selection of his publications between 2002 and 2013, including his work on skyrmions; K-theory and cohomology; geometric models of matter; curvature, cones and characteristic numbers; and reflections on the work of Riemann, Einstein and Bott.

### Innovations in Satellite Communications and Satellite Technology OUP Oxford

This book acts as a guide to simple models that describe some of the complex fluid dynamics, heat/mass transfer and combustion processes in droplets and sprays. Attention is focused mainly on the use of classical hydrodynamics, and a combination of kinetic and hydrodynamic models, to analyse the heating and evaporation of mono- and multi-component droplets. The models were developed for cases when small and large numbers of components are present in droplets. Some of these models are used for the prediction of time to puffing/micro-explosion of composite water/fuel droplets — processes that are widely used in combustion devices to stimulate disintegration of relatively large droplets into smaller ones. The predictions of numerical codes based on these models are validated against experimental results where possible. In most of the models, droplets are assumed to be spherical; some preliminary results of the generalisation of these models to the

case of non-spherical droplets, approximating them as spheroids, are presented.

### Telling Science Stories CRC Press

A practical manual for anyone who wants to turn scientific facts into gripping science stories, this book provides an overview of story elements and structure, guidance on where to locate them in scientific papers and a step-by-step guide to applying storytelling techniques to writing about science. In this book, Martin W. Angler outlines basic storytelling elements to show how and where fledgling science storytellers can find them in scientific output. Journalistic techniques like selection through news values and narrative interviews are covered in dedicated chapters. A variety of writing techniques and approaches are presented as a way of framing science stories in ways that are informative and compelling in different media – from short films to news articles. Practical examples, selected interviews and case studies complement each chapter, with exercises and experimentation suggestions included for deeper understanding. Review questions at the end of each chapter cement the newly gained knowledge to make sure readers absorb it, with links to articles and online tools inviting further reading. A valuable resource for students of journalism and science communication as well as professional journalists, scientists and scientists-in-training who want to engage with the public or simply improve their journal papers. This book is a one-stop shop on science storytelling with a clear focus on providing practical techniques and advice on how to thrive as science writers and communicate science in all of its complexity.

Marine Bioenergy John Wiley & Sons

Surveys key advances in commercial satellite communications and what might be the implications and/or opportunities for end-users and service providers in utilizing the latest fast-evolving innovations in this field This book explores the evolving technical options and opportunities of satellite networks. Designed to be a self-contained reference, the book includes background technical material in an introductory chapter that will serve as a primer to satellite communications. The text discusses advances in modulation techniques, such as DBV-S2 extensions (DVS-S2X); spotbeam-based geosynchronous and medium earth orbit High Throughput Satellite (HTS) technologies and Internet applications; enhanced mobility services with aeronautical and maritime applications; Machine to Machine (M2M) satellite applications; emerging ultra HD technologies; and electric propulsion. The author surveys the latest innovations and service strategies and the resulting implications, which involves: Discussing advances in modulation techniques and HTS spotbeam technologies Surveying emerging high speed aeronautical mobility services and maritime and other terrestrial mobility services Assessing M2M (machine-to-machine) applications, emerging Ultra HD video technologies and new space technology Satellite communication is an integral part of the larger fields of commercial, television/media, government, and military communications, because of its multicast/broadcast capabilities, mobility, reliability, and global reach. High Throughput Satellites) are expected to revolutionize the field during this decade, providing very high speed, yet cost-effective, Internet access and connectivity anywhere in the world, in rural areas, in the air, and at sea. M2M connectivity, enabled by satellite communications, connects trucks on transcontinental trips, aircraft in real-time-telemetry aggregation, and mercantile ships. A comprehensive analysis of the new advances in satellite communications, Innovations in Satellite Communications Technology is a reference for telecommunications and satellite providers and end-users, technology investors, logistic professionals, and more.

Natural and Human-Induced Hazards and Disasters in Africa Bloomsbury Publishing  
 Silicon-On-Insulator (SOI) Technology: Manufacture and Applications covers SOI transistors and circuits, manufacture, and reliability. The book also looks at applications such as memory, power devices, and photonics. The book is divided into two parts; part one covers SOI materials and manufacture, while part two covers SOI devices and applications. The book begins with chapters that introduce techniques for manufacturing SOI wafer technology, the electrical properties of advanced SOI materials, and modeling short-channel SOI semiconductor transistors. Both partially

depleted and fully depleted SOI technologies are considered. Chapters 6 and 7 concern junctionless and fin-on-oxide field effect transistors. The challenges of variability and electrostatic discharge in CMOS devices are also addressed. Part two covers recent and established technologies. These include SOI transistors for radio frequency applications, SOI CMOS circuits for ultralow-power applications, and improving device performance by using 3D integration of SOI integrated circuits. Finally, chapters 13 and 14 consider SOI technology for photonic integrated circuits and for micro-electromechanical systems and nano-electromechanical sensors. The extensive coverage provided by Silicon-On-Insulator (SOI) Technology makes the book a central resource for those working in the semiconductor industry, for circuit design engineers, and for academics. It is also important for electrical engineers in the automotive and consumer electronics sectors. Covers SOI transistors and circuits, as well as manufacturing processes and reliability Looks at applications such as memory, power devices, and photonics

[Let There Be Light!](#) IGI Global

Rapidly generating and processing large amounts of data, supercomputers are currently at the leading edge of computing technologies. Supercomputers are employed in many different fields, establishing them as an integral part of the computational sciences. Research and Applications in Global Supercomputing investigates current and emerging research in the field, as well as the application of this technology to a variety of areas. Highlighting a broad range of concepts, this publication is a comprehensive reference source for professionals, researchers, students, and practitioners interested in the various topics pertaining to supercomputing and how this technology can be applied to solve problems in a multitude of disciplines.

[Droplets and Sprays](#) Edward Elgar Publishing

This book contains revised papers from the 17th International Conference on Enterprise Information Systems, ICEIS 2015, held in Barcelona, Spain, in April 2015. The 31 papers presented in this volume were carefully reviewed and selected from a total of 327 submissions. The book also contains one full-paper invited talk. The selected papers reflect state-of-the-art research that is oriented toward real-world applications and highlight the benefits of information systems and technology for industry and services. They are organized in topical sections on databases and information systems integration, artificial intelligence and decision support systems, information systems analysis and specification, software agents and Internet computing, human-computer interaction, and enterprise architecture.

[Silicon-On-Insulator \(SOI\) Technology](#) Routledge

Improvements in safety in the air and in space can be achieved through better ergonomics, better work environments, and other efforts of traditional avionic psychology that directly affect human behaviors and performance. Not limited to just the aerospace field, this book discusses adaptive probabilistic predictive modeling in human-in-the-loop situations and gets you familiar with a new, powerful, flexible, and effective approach to making outcomes from missions successful and safe. Covers the concepts, which are adaptable across other disciplines, and methodology for evaluating the likelihood of a successful outcome of an extraordinary situation Considers human performance and equipment/instrumentation reliability, as well as other possible sources of uncertainty Presents probabilistic assessment of an aerospace mission outcome Provides the most effective, physically meaningful, and cost-effective planning of an aerospace mission Offers how to organize and provide the most effective training of personnel

[Errorless UPPSC General Studies Prelim Paper 1 - 10 Year-wise Solved Papers \(2010 - 19\)](#) Springer Nature

Providing a clear and systematic description of droplets and spray dynamic models, this book maximises reader insight into the underlying physics of the processes involved, outlines the development of new physical and mathematical models and broadens understanding of interactions between the complex physical processes which take place in sprays. Complementing approaches based on the direct application of computational fluid dynamics (CFD), *Droplets and Sprays* treats both theoretical and practical aspects of internal combustion engine process such as the direct injection of liquid fuel, subcritical heating and evaporation. Including case studies that illustrate the approaches relevance to automotive applications, it is also anticipated that the described models can find use in other areas such as in medicine and environmental science.

[The quantification of the key physics parameters for the DEMO fusion power reactor and analysis of the reactor relevant physics issues](#) Springer

Have you ever wondered what it is like to work on a nuclear power plant? Robert Dutch worked in the UK's nuclear industry for many years as a scientist and then as a tutor at a nuclear training center. He also holds degrees in theology. Drawing upon his qualifications and experience Robert addresses the controversial issue of nuclear power from a Christian perspective. In contrast to a negative nuclear narrative often portrayed, he presents a positive nuclear narrative alongside other ways of generating electricity. Be prepared to be challenged to think seriously about nuclear's merits in providing clean, low-carbon electricity.

[Shale](#) Petrogav International

*Marine Bioenergy: Trends and Developments* features the latest findings of leading scientists from around the world. Addressing the key aspects of marine bioenergy, this state-of-the-art text: Offers an introduction to marine bioenergy Explores marine algae as a source of bioenergy Describes biotechnological techniques for biofuel production Explains the production of bioenergy, including bioethanol, biomethane, biomethanol, biohydrogen, and biodiesel Covers bioelectricity and marine microbial fuel cell (MFC) production from marine algae and microbes Discusses marine waste for bioenergy Considers commercialization and the global market *Marine Bioenergy: Trends and Developments* provides a valuable springboard for marine bioenergy research and development, making the book a must-have reference for scientists, engineers, and students.

[Handbook of the Politics of the Arctic](#) Taylor & Francis

Edited collection featuring essays from exceptional National Teaching Fellows. Presents the cutting-

edge of pedagogical thinking on the most important topics in higher education today, including student engagement, assessment, internationalisation and employability. Destined to become a 'must-read' guide for anyone involved in higher education.

[Ethical Engineering for International Development and Environmental Sustainability](#) Routledge *Cities in Transition* focuses on the sustainability transitions initiated in 40 European cities. The book presents the incredible wealth of insights gathered through hundreds of interviews and questionnaires. Four key domains—local energy systems, local green spaces, local water systems and local labour markets—have been the focus of the field research investigating local potentials for social innovation and new forms of civil society self-organisation. Examining the potential of new organizational frameworks like co-operatives, multi-stakeholder constructions, local-regional partnerships and networks for the success of such transitions, this book presents the key ingredients of a sustainable urban community as a viable concept to address current global financial, environmental and social challenges. Crucial reading for academics and practitioners of urban planning and sustainability in Europe, *Cities in Transition* is an innovative roadmap for sustainability in changing cities.

[Computational Molecular Magnetic Resonance Imaging for Neuro-oncology](#) Edward Elgar Publishing The updated and expanded third edition of this book focuses on the multi-disciplinary coupling between flight-vehicle hardware alternatives and enabling propulsion systems. It discusses how to match near-term and far-term aerospace vehicles to missions and provides a comprehensive overview of the subject, directly contributing to the next-generation space infrastructure, from space tourism to space exploration. This holistic treatment defines a mission portfolio addressing near-term to long-term space transportation needs covering sub-orbital, orbital and escape flight profiles. In this context, a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access. A best-practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission. This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike.

[Bihar and Mithila](#) Africa Institute of South Africa

Few phenomena inspire more awe than lightning. Streaking across the sky, it daunts us with its power and amazes us with its beauty. In *Lightning*, Derek M. Elsom explores this natural phenomenon and traces the long history of our study of it. From early civilizations' assumptions that it was the work of gods, through eighteenth-century scientific analyses (and, yes, Ben Franklin's kite), Elsom tells about our efforts to understand and explain lightning. He explores the many surprising folklore beliefs about lightning protection and contrasts these with today's scientific approaches. Alongside scientific explorations, he also tracks the path of lightning through our culture, from myths and legends to art and design. In addition, Elsom offers handy tips for avoiding getting struck by lightning. Beautifully illustrated with stunning photographs and artistic renderings, this striking book will appeal equally to weather buffs and folklorists, scientists and artists.

[Fluid Dynamics in Complex Fractured-Porous Systems](#) IGI Global

*Distributed Generation and its Implications for the Utility Industry* examines the current state of the electric supply industry; the upstream and downstream of the meter; the various technological, business, and regulatory strategies; and case studies that look at a number of projects that put new models into practice. A number of powerful trends are beginning to affect the fundamentals of the electric utility business as we know it. Recent developments have led to a fundamental re-thinking of the electric supply industry and its traditional method of measuring consumption on a volumetric basis. These developments include decreasing electricity demand growth; the rising cost of fossil fuels and its impact on electricity costs; investment in energy efficiency; increasing numbers of prosumers who generate for some or all of their own needs; and market reforms. This book examines the implications of these trends in chapters focusing on distributed and decentralized generation, transactive energy, the role of electric vehicles, any much more. Discusses the technological, business, and policy trends most impacting the electric utility sector Provides an assessment of how fast and how soon distributed energy resources may make an impact on utility sales/revenues Explores, through a series of international case studies, the implementation of strategies that may help retain the viability of the utility industry Features contributions from a number of scholars, academics, experts and practitioners from different parts of the world focused on examining the future of the electric supply industry

[Enterprise Information Systems](#) Springer Nature

Based on the analytical methods and the computer programs presented in this book, all that may be needed to perform MRI tissue diagnosis is the availability of relaxometric data and simple computer program proficiency. These programs are easy to use, highly interactive and the data processing is fast and unambiguous. Laboratories (with or without sophisticated facilities) can perform computational magnetic resonance diagnosis with only T1 and T2 relaxation data. The results have motivated the use of data to produce data-driven predictions required for machine learning, artificial intelligence (AI) and deep learning for multidisciplinary and interdisciplinary research. Consequently, this book is intended to be very useful for students, scientists, engineers, the medical personnel and researchers who are interested in developing new concepts for deeper appreciation of computational magnetic resonance imaging for medical diagnosis, prognosis, therapy and management of tissue diseases.

[Psychology in Crisis](#) John Wiley & Sons

In this forward-looking book, the authors consider how the United Nations Security Council could assist in addressing the global security challenges brought about by climate change. Contributing authors contemplate how the UNSC could prepare for this role; progressing the debate from whether and why the council should act on climate insecurity, to how? Scholars, activists, and policy makers will find this book a fertile source of innovative thinking and an invaluable basis on which to develop policy.

Best Sellers - Books :

- [The 5 Love Languages: The Secret To Love That Lasts](#) By Gary Chapman
- [Twisted Love \(twisted, 1\)](#)
- [Reminders Of Him: A Novel](#) By Colleen Hoover
- [How To Catch A Mermaid](#) By Adam Wallace
- [Brown Bear, Brown Bear, What Do You See?](#)
- [The Courage To Be Free: Florida's Blueprint For America's Revival](#)
- [The Courage To Be Free: Florida's Blueprint For America's Revival](#) By Ron Desantis
- [Love You Forever](#) By Robert Munsch
- [Icebreaker: A Novel \(the Maple Hills Series\)](#)
- [A Court Of Wings And Ruin \(a Court Of Thorns And Roses, 3\)](#) By Sarah J. Maas