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### Practical Power Plant Engineering MDPI

A soup-to-nuts introduction to small, economical sailing craft Trailer sailers--the smallest, most economical sailboats with sleeping accommodations--are a popular platform for learning the basics of sailing and are often considered to be the entry level to cruising under sail. Author Brian Gilbert shows how trailer sailers can be the ideal craft for a lifetime of enjoyment, including serious, long-distance cruising. This book covers all the bases, including how to inspect, buy, and equip a boat; how to trailer, sail, navigate, and cruise in small boats; how to use communications and navigation equipment; and more.

### Microgrid Energy Management Springer

"The book provides vital insights into commercial development for engineering students in a highly practical and applied manner. Over the past 3 years, application of the book 's material has allowed the students to develop their commercial literacy and ambition in the University." —Steve Orr, Director, Northern Ireland Science Park CONNECT program which looks to accelerate the growth of knowledge-based companies in Northern Ireland Engineering Innovative Products: A Practical Experience is a pioneering book that will be of key use to senior undergraduate and graduate engineering students who are being encouraged to explore innovation and commercialization as part of their courses. The book will teach the essential skills of entrepreneurship and address the fundamental requirements needed to establish a successful technology company. As well as providing the crucial background and insights enabling students to identify a key market, it also offers a highly practical guide to undertaking genuine product validation and producing a feasibility study, as well as providing vital insights into the challenges and demands in forming a technology based company. Key features: Outlines how to develop and grow an engineering solution which has market potential and covers key business aspects of giving the perfect pitch, sales and marketing, protection of ideas and finance, to offer a complete and practical guide to commercializing ideas. Provides vital insight into the design and innovation processes within engineering and the challenges and pitfalls in translating good ideas into great products. Features contributions from leading experts in marketing, finance, company formation, sales and intellectual protection which provides details of the challenges faced by innovators when commercializing ideas. Includes Case studies from engineering students who give insights into how they have successfully developed their own ideas into companies.

### *The Development Century Routledge*

This book presents selected articles from India Smart Grid Week (ISGW 2018), held on March 5 to 9, 2018, at the Manekshaw Centre, New Delhi, India. It was the fourth conference and exhibition on smart grids and smart cities organized by the India Smart Grid Forum (ISGF), a Government of India public-private partnership, tasked with accelerating smart grid deployment across the country. Providing current-scenario-based updates on the Indian power sector, the book also highlights various disruptive technologies.

### High-Power Lasers: Improvements and Applications Springer Nature

Written by two practicing electrical engineers, this second edition of the bestselling Protection of Electricity Distribution Networks offers both practical and theoretical coverage of the technologies, from the classical electromechanical relays to the new numerical types, which protect equipment on networks and in electrical plants. A properly coordinated protection system is vital to ensure that an electricity distribution network can operate within preset requirements for safety for individual items of equipment, staff and public, and the network overall. Suitable and reliable equipment should be installed on all circuits and electrical equipment and to do this, protective relays are used to initiate the isolation of faulted sections of a network in order to maintain supplies elsewhere on the system. This then leads to an improved electricity service with better continuity and quality of supply.

### Entrepreneurial Ecosystems Springer Science & Business Media

Interested in developing embedded systems? Since they don't tolerate inefficiency, these systems require a disciplined approach to programming. This easy-to-read guide helps you cultivate a host of good development practices, based on classic software design patterns and new patterns unique to embedded programming. Learn how to build system architecture for processors, not operating systems, and discover specific techniques for dealing with hardware difficulties and manufacturing requirements. Written by an expert who's created embedded systems ranging from urban surveillance and DNA scanners to children's toys, this book is ideal for intermediate and experienced programmers, no matter what platform you use. Optimize your system to reduce cost and increase performance Develop an architecture that makes your software robust in resource-constrained environments Explore sensors, motors, and other I/O devices Do more with less: reduce RAM consumption, code space, processor cycles, and power consumption Learn how to update embedded code directly in the processor Discover how to implement complex mathematics on small processors Understand what interviewers look for when you apply for an embedded systems job "Making Embedded Systems is the book for a C programmer who wants to enter the fun (and lucrative) world of embedded systems. It's very well written, entertaining, even and filled with clear illustrations." —Jack Ganssle, author and embedded system expert.

### *Architecture and Engineering Elsevier*

A Hands-On Approach to Electrical Design Electrical Design of Commercial and Industrial Buildings teaches students the critical components of electrical design through an integrated approach that combines fundamental theory with hands-on practice. By taking an applied-learning approach to instruction, this text explains electrical principles, design criteria, codes, and other key elements of the design process, then guides students through each step as they create their own electrical design plans. A companion Student Resource CD-ROM accompanies the printed textbook with sample plans - accompanied by example equipment lists, lighting fixture schedules, and calculation templates - provides students with a comprehensive framework for experiential learning. As an integrated learning tool, Electrical Design of Commercial and Industrial Buildings is both an essential teaching guide for electrical design instructors and an enduring reference book for students and professionals.

**Consulting-specifying Engineer** Springer Science & Business Media

This book is written for students and teachers engaged in electrical and computer engineering (ECE) design projects, primarily in the senior year. It guides students and faculty through the steps necessary for the successful execution of design projects. The objective of the text is to provide a treatment of the design process in ECE with a sound academic basis that is integrated with practical application. It has a strong guiding vision -- that a solid understanding of the Design Process, Design Tools, and the right mix of Professional Skills are critical for project and career success. This text is unique in providing a comprehensive design treatment for ECE.

**Human Resource Management, Innovation and Performance** McGraw-Hill Science, Engineering & Mathematics

This book elaborates on the combined challenges regarding intrapreneurship, sustainability of human resources management (HRM) and digital transformation faced by today's organizations. Representing the first such attempt in current management literature, it explores the sustainable HRM approach, which focuses on connecting internal and external factors so as to achieve positive outcomes not only for the respective organization but also for the society, economy, and environment. It also discusses cases related to HRM's role in establishing a corporate sustainability culture, while also working to promote employee engagement, satisfaction, performance and well-being. In closing, the book discusses the new opportunities provided by digitalization and connectivity in the field of intellectual capital, which make employees the central focus of the organization in order to create sustainable competitive advantages.

**Life Cycle of a Process Plant** Pearson

A unique combination of theoretical knowledge and practical analysis experience Derived from Yoshihide Hases Handbook of Power Systems Engineering, 2nd Edition, this book provides readers with everything they need to know about power system dynamics. Presented in three parts, it covers power system theories, computation theories, and how prevailed engineering platforms can be utilized for various engineering works. It features many illustrations based on ETAP to help explain the knowledge within as much as possible. Recompiling all the chapters from the previous book, Power System Dynamics with Computer Based Modeling and Analysis offers nineteen new and improved content with updated information and all new topics, including two new chapters on circuit analysis which help engineers with non-electrical

engineering backgrounds. Topics covered include: Essentials of Electromagnetism; Complex Number Notation (Symbolic Method) and Laplace-transform; Fault Analysis Based on Symmetrical Components; Synchronous Generators; Induction-motor; Transformer; Breaker; Arrester; Overhead-line; Power cable; Steady-State/Transient/Dynamic Stability; Control governor; AVR; Directional Distance Relay and R-X Diagram; Lightning and Switching Surge Phenomena; Insulation Coordination; Harmonics; Power Electronics Applications (Devices, PE-circuit and Control) and more. Combines computer modeling of power systems, including analysis techniques, from an engineering consultants perspective Uses practical analytical software to help teach how to obtain the relevant data, formulate what-if cases, and convert data analysis into meaningful information Includes mathematical details of power system analysis and power system dynamics Power System Dynamics with Computer-Based Modeling and Analysis will appeal to all power system engineers as well as engineering and electrical engineering students.

**Strategic International Management** Springer

Offers cutting-edge perspectives on how international development has shaped the global history of the modern world.

**The Economics of Recreation, Leisure and Tourism** John Wiley & Sons

This book presents a discussion of problems encountered in the deployment of Intelligent Transport Systems (ITS). It puts emphasis on the early tasks of designing and proofing the concept of integration of technologies in Intelligent Transport Systems. In its first part the book concentrates on the design problems of urban ITS. The second part of the book features case studies representative for the different modes of transport. These are freight transport, rail transport and aerospace transport encompassing also space stations. The book provides ideas for deployment which may be developed by scientists and engineers engaged in the design of Intelligent Transport Systems. It can also be used in the training of specialists, students and post-graduate students in universities and transport high schools.

**The Athena Factor** Springer

Research Paper (postgraduate) from the year 2019 in the subject Electrotechnology, , language: English, abstract: The aim of the study is to model FACTS devices on weak transmission line in the Nigeria power network and consider their effect on the bus voltages, reactive and active power using genetic algorithm(GA) approach for loss minimization. The Nigeria 330KV existing network to be considered consist of nine (9) generating stations, thirty(30)Buses and forty one (41) transmission lines which will be modelled and simulated using Matlab Version 7.10. The study is limited to Nigeria 330kV existing power network with the focus on the comparison of the Bus voltages and power flow on the transmission lines when FACTS devices are incorporated and when the FACTS devices are not incorporated. Research Questions: For the realization of the objectives mentioned above and the aim, the following research questions were set as a guide: 1. What is the significant effect of FACTS devices on weak transmission lines? 2. Can FACTS device be used with genetic algorithm for optimization of power loss and improvement of the bus voltages? 3. What is the limitation of using just genetic algorithm without FACTS device for the optimization of power loss and the improvement of the bus voltages? This research work is divided into five chapters with each chapter buttressing more on minimization of power loss. The scope of the work , the objective

and aim of the research work to be achieved is addressed in chapter one (1). Chapter two(2) focus on the literature review of other researchers on FACTS device in the improvement of the power network, the concept of FACTS device and the choice of FACTS device to be used was also addressed in chapter two (2) of this research work. Chapter three focus on the methodology used for this study. The simulation of the 330kV Nigeria power network was done on MATLAB /SIMULINK 7.5. Also the chapter three focused on the use of power flow analysis toolbox which is a collection of a written codes of m files that has a compatible interface with MATLAB to generate the load flow of the power network instead of using ETAP. The genetic algorithm was also discussed as an optimization tool deployed to optimize the losses on the transmission line. Chapter four focus on the research findings with possible explanation as to some of the result obtained. Finally chapter five talks about the conclusion of this research work and highlight some areas to explore in the future.

*Intrapreneurship and Sustainable Human Capital* Springer Nature

Life Cycle of a Process Plant focuses on workflows, work processes, and interfaces. It is an ideal reference book for engineers of all disciplines, technicians, and business people working in the upstream, midstream, and downstream fields. This book is tailored to the everyday work tasks of the process and project engineer/manager and relates regulations to actions engineers can take in the workplace via case studies. It covers oil, gas, chemical, petrochemical, and carbon capture industries. The content in this book will be interesting for any engineers (from all disciplines) and other project team members who understand the technical principles of their work, but who would like to have a better idea of where their contribution fits into the complete picture of the life cycle of a process plant. This book shows the basic principles and approaches of process plant lifecycle information management and how they can be applied to generate substantial cost and time savings. Thus, the readers with their own knowledge and experience in plant design and operations can adapt and implement them into their specific plant lifecycle applications. Authors bring their practical and hands-on industry expertise to this book Covers the entire workflow process of a process plant from project initiation and design through to the commissioning stage Cost estimations which relate to process plants are discussed Covers the program and project management in O&G industry

**Engineering News and American Contract Journal** "O'Reilly Media, Inc."

A supplementary book for a project or senior design course. It provides a unified methodical approach to engineering design projects by first examining project design principles, then illustrating their applications in six modules in digital, analog, electromagnetics, control, communications, and power.

**Internet of Things Use Cases for the Healthcare Industry** Springer

Practical Power Plant Engineering offers engineers, new to the profession, a guide to the methods of practical design, equipment selection and operation of power and heavy industrial plants as practiced by experienced engineers. The author—a noted expert on the topic—draws on decades of practical experience working in a number of industries with ever-changing technologies. This comprehensive book, written in 26 chapters, covers the electrical activities from plant design, development to commissioning. It is filled with descriptive examples, brief equipment data sheets, relay protection, engineering calculations, illustrations, and common-sense engineering approaches. The book explores the most relevant topics and reviews the industry standards and established engineering practices. For example, the author leads the reader through the application of MV switchgear, MV controllers, MCCs and distribution lines in building plant power distribution systems, including calculations of interrupting duty for breakers and contactors. The text also contains useful information on the various types of

concentrated and photovoltaic solar plants as well as wind farms with DFIG turbines.

This important book: • Explains why and how to select the proper ratings for electrical equipment for specific applications • Includes information on the critical requirements for designing power systems to meet the performance requirements • Presents tests of the electrical equipment that prove it is built to the required standards and will meet plant-specific operating requirements Written for both professional engineers early in their career and experienced engineers, Practical Power Plant Engineering is a must-have resource that offers the information needed to apply the concepts of power plant engineering in the real world.

**Engineering Innovative Products** Jones & Bartlett Publishers

This book explores potentially disruptive and transformative healthcare-specific use cases made possible by the latest developments in Internet of Things (IoT) technology and Cyber-Physical Systems (CPS). Healthcare data can be subjected to a range of different investigations in order to extract highly useful and usable intelligence for the automation of traditionally manual tasks. In addition, next-generation healthcare applications can be enhanced by integrating the latest knowledge discovery and dissemination tools. These sophisticated, smart healthcare applications are possible thanks to a growing ecosystem of healthcare sensors and actuators, new ad hoc and application-specific sensor and actuator networks, and advances in data capture, processing, storage, and mining. Such applications also take advantage of state-of-the-art machine and deep learning algorithms, major strides in artificial and ambient intelligence, and rapid improvements in the stability and maturity of mobile, social, and edge computing models.

*Annual Department of Defense Bibliography of Logistics Studies and Related Documents* McGraw Hill Professional

This pioneering collection seeks to understand why and how some digital enterprises in Africa progress while others firms either stagnate or regress. Using a range of detailed case studies, it addresses the challenges and barriers that are in place and how some outstanding digital firms deal with operating in a hostile business environment. While digital platforms have created equal access for small businesses, many digital entrepreneurs in Africa continue to struggle with local environments replete with corruption, and other economic inefficiencies. The contributions move the debate forward by addressing the challenges, opportunities, and prospects of digital enterprise in Africa. Placing special emphasis on how African new entrant digital firms are shaping the landscape and forging a new beginning for Africa, this book offers entrepreneurial perspectives to both researchers and policy-makers seeking to support and stimulate entrepreneurship in the new era.

**Engineering Design for Electrical Engineers** GRIN Verlag

This book presents an interesting sample of the latest advances in optimization techniques applied to electrical power engineering. It covers a variety of topics from various fields, ranging from classical optimization such as Linear and Nonlinear Programming and Integer and Mixed-Integer Programming to the most modern methods based on bio-inspired metaheuristics. The featured papers invite readers to delve further into emerging optimization techniques and their real application to case studies such as

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conventional and renewable energy generation, distributed generation, transport and distribution of electrical energy, electrical machines and power electronics, network optimization, intelligent systems, advances in electric mobility, etc.

Digital Entrepreneurship in Sub-Saharan Africa Springer Nature

One of the leading texts in the field, The Economics of Recreation, Leisure and Tourism is the ideal introduction to the fundamentals of economics in these industries, helping you to enjoy and pass an economics module as part of tourism, recreation, events or sport management degrees. International in its outlook, it will equip you with vital skills and knowledge for your future career as well as critical skills to help you understand and help tackle crucial challenges facing the world. It is written in a clear and engaging style that assumes no prior knowledge of economics. It applies economic theory to a range of tourism industry issues at the consumer, business, national and international level by using topical examples to give the theory real-world context. This book is richly illustrated with diagrams and contains a range of features such as international case studies showcasing current issues, review questions and extracts from journals to aid understanding and further knowledge, as well as new data and statistics. It concludes with a powerful critique of traditional economics and a set of twenty-one issues that demand action. This sixth edition has been revised and updated to include: recent and time series international economic data to provide a sense of the dynamics of world economies topical analysis to aid decision making for industry, governments and pressure groups a renewed emphasis on environmental and climate change issues new and revised international case studies that demonstrate theoretical principles of economics as applied to the sector a companion website with PowerPoint slides.

Power System Dynamics with Computer-Based Modeling and Analysis John Wiley & Sons

This book features latest research insights into the study of the entrepreneurial ecosystem. The focus is on understanding its influence on the development of socially and physically defined 'places', and how these factors are related with each other. The book argues that regardless of how the concept of a 'place' is defined, be it cities, regions, nations or otherwise, the impact of new technologies will influence much of our business, social, and economic landscapes. Evidently, there is an increasing pressure on 'places' to embrace new opportunities for strategic development and confront complacency. The solution may very well be in creating and sustaining entrepreneurial ecosystems where entrepreneurial action thrives and innovation drives the new economy.