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Technical Writing Jun 12 2021 Technical Writing: A Practical Guide for Engineers, Scientists, and Nontechnical Professionals, Second Edition enables readers to write, edit, and publish materials of a technical nature, including books, articles, reports, and electronic media. Written by a renowned engineer and widely published technical author, this guide complements traditional writer's reference manuals on technical writing through presentation of first-hand examples that help readers understand practical considerations in writing and producing technical content. These examples illustrate how a publication originates as well as various challenges and solutions. The second edition contains new material in every chapter including new topics, additional examples, insights, tips and tricks, new vignettes and more exercises. Appendices have been added for writing checklists and writing samples. The references and glossary have been updated and expanded. In addition, a focus on writing for the nontechnical persons working in the technology world and the nonnative English speaker has been incorporated. Written in an informal, conversational style, unlike traditional college writing texts, the book also contains many interesting vignettes and personal stories to add interest to otherwise stodgy lessons.
Hazardous Forecasts and Crisis Scenario Generator Mar 10 2021 This book presents a crisis scenario generator with black swans, black butterflies and worst case scenarios. It is the most useful scenario generator that can be used to manage assets in a crisis-prone period, offering more reliable values for Value at Risk (VaR), Conditional Value at Risk (CVaR) and Tail Value at Risk (TVaR). Hazardous Forecasts and Crisis Scenario Generator questions how to manage assets when crisis probability increases, enabling you to adopt a process for using generators in order to be well prepared for handling crises. Evaluates risk-oriented philosophy, forecast risk-oriented philosophy and its processes Features scenario-building processes, with an emphasis on main and extreme scenarios Discusses asset management processes using a generator methodology to avoid risk understatement and increase optimization.
Distributed Generation Dec 27 2019 Distributed power generation is a technology that could help to enable efficient, renewable energy production both in the developed and developing world. It includes all use of small electric power generators, whether located on the utility system, at the site of a utility customer, or at an isolated site not connected to the power grid. Induction generator (IG) is the most commonly used and cheapest technology, compatible with renewable energy resources. Permanent magnet (PM) generators have traditionally been avoided due to high fabrication costs; however, compared with IGs they are more reliable and productive. Distributed Generation thoroughly examines the principles, possibilities and limitations of creating energy with both IGs and PM generators. It takes an electrical engineering approach in the analysis and testing of these generators, and includes diagrams and extensive case study examples to better demonstrate how the integration of energy sources can be accomplished. The book also provides the practical tools needed to model and implement new techniques for generating energy through isolated or grid-connected systems. Besides a chapter introducing the technical, economic and environmental impacts of distributed generation, this book includes: an examination of various phase-balancing schemes for a three-phase IG operating on a single-phase power system; a coupled circuit 2-D finite element analysis of a grid-connected IG, with Steinmetz connection; a study of self-excited induction generator (SEIG) schemes for autonomous power systems, and the voltage and frequency control of SEIG with a slip-ring machine (SESRIG); a report on a PM synchronous generator with inset rotor for achieving a reduced voltage regulation when supplying an autonomous power system, and an analysis of its performance using a two-axis model and finite element method; experimental work on various IG and SEIG schemes. This book is a must-read for engineers, consultants, regulators, and environmentalists involved in energy production and delivery, helping them to evaluate renewable energy sources and to integrate these into an efficient energy delivery system. It is also a superior reference for undergraduates and postgraduates. Designers, operators, and planners will appreciate its unique contribution to the literature in this field.
The Project Skyfire Cloud-seeding Generator Nov 29 2022
Resources in Education Oct 05 2020
Electromagnetic Analysis and Condition Monitoring of Synchronous Generators Nov 05 2020 Electromagnetic Analysis and Condition Monitoring of Synchronous Generators Discover an insightful and complete overview of electromagnetic analysis and fault diagnosis in large synchronous generators In Electromagnetic Analysis and Condition Monitoring of Synchronous Generators, a team of distinguished engineers delivers a comprehensive review of the electromagnetic analysis and fault diagnosis of synchronous generators. Beginning with an introduction to several types of synchronous machine structures, the authors move on to the most common faults found in synchronous generators and their impacts on performance. The book includes coverage of different modeling tools, including the finite element method, winding function, and magnetic equivalent circuit, as well as various types of health monitoring systems focusing on the magnetic field, voltage, current, shaft flux, and vibration. Finally, Electromagnetic Analysis and Condition Monitoring of Synchronous Generators covers signal processing tools that can help identify hidden patterns caused by faults and machine learning tools enabling automated condition monitoring. The book also includes: A thorough introduction to condition monitoring in electric machines and its importance to synchronous generators Comprehensive explorations of the classification of synchronous generators, including armature arrangement, machine construction, and applications Practical discussions of different types of electrical and mechanical faults in synchronous generators, including short circuit faults, eccentricity faults, misalignment, core-related faults, and broken damper bar faults In-depth examinations of the modeling of healthy and faulty synchronous generators, including analytical and numerical methods Perfect for engineers working in electrical machine analysis, maintenance, and fault detection, Electromagnetic Analysis and Condition Monitoring of Synchronous Generators is also an indispensable resource for professors and students in electrical power engineering.
Guide to Annual Subject Index for Technical Publications Announcements, Apr.-Dec. 1962 Jul 02 2020
A Manual for Writers of Dissertations Dec 31 2022
Automation 2021: Recent Achievements in Automation, Robotics and Measurement Techniques Sep 03 2020 This book contains 38 papers authored by both scientists and practitioners focused on an interdisciplinary approach to the development of cyber-physical systems. Recently our civilization has been facing one of the most severe challenges in modern history. The COVID-19 pandemic devastated the global economy and significantly disrupted numerous areas of economic activity. Only radical increase of efficiency and versatility of industrial production, with further limitation of human involvement, paralleled by the decrease of environmental burden, will enable us to cope with such challenges. We hope that the presented book provides input to the solution of at least some problems brought about by this challenge. This approach relies on the development of measuring techniques, robotic and mechatronic systems, industrial automation, numerical modeling and simulation as well as application of artificial intelligence techniques required by the transformation leading to Industry 4.0.
Recent Progress in Computational Sciences and Engineering (2 vols) Apr 30 2020 This volume brings together selected contributed papers presented at the International Conference of Computational Methods in Science and Engineering (ICCMSE 2006), held in Chania, Greece, October 2006. The conference aims to bring together computational scientists from several disciplines in order to share methods and ideas. The ICCMSE is unique in its kind. It regroups original contributions from all fields of the traditional Sciences, Mathematics, Physics, Chemistry, Biology, Medicine and all branches of Engineering. It would be perhaps more appropriate to define the ICCMSE as a conference on computational science and its applications to science and engineering. Topics of general interest are: Computational Mathematics, Theoretical Physics and Theoretical Chemistry. Computational Engineering and Mechanics, Computational Biology and Medicine, Computational Geosciences and Meteorology, Computational Economics and Finance, Scientific Computation. High Performance Computing, Parallel and Distributed Computing, Visualization, Problem Solving Environments, Numerical Algorithms, Modelling and Simulation of Complex System, Web-based Simulation and Computing, Grid-based Simulation and Computing, Fuzzy Logic, Hybrid Computational Methods, Data Mining, Information Retrieval and Virtual Reality, Reliable Computing, Image Processing, Computational Science and Education etc. More than 800 extended abstracts have been submitted for consideration for presentation in ICCMSE 2005. From these 500 have been selected after international peer review by at least two independent reviewers.
Digest of Technical Papers Feb 06 2021
Energy Apr 10 2021
Radio Service Bulletin May 12 2021
Diesel Generator Operating Experience at Nuclear Power Plants Jul 14 2021
Benchmarking, Measuring, and Optimizing May 31 2020 This book constitutes the refereed proceedings of the Second International Symposium on Benchmarking, Measuring, and Optimization, Bench 2019, held in Denver, CO, USA, in November 2019. The 20 full papers and 11 short papers presented were carefully reviewed and selected from 79 submissions. The papers are organized in topical sections named: Best Paper Session; AI Challenges on Cambircon using AIBenc; AI Challenges on RISC-V using AIBench; AI Challenges on X86 using AIBench; AI Challenges on 3D Face Recognition using AIBench; Benchmark; AI and Edge; Big Data; Datacenter; Performance Analysis; Scientific Computing.
Proceedings of the Third International Symposium on Environmental Degradation of Materials in Nuclear Power Systems--Water Reactors Aug 22 2019
Bibliography of Scientific and Industrial Reports Mar 29 2020
Research Report - Avco Everett Research Laboratory Sep 27 2022
Scientific and Technical Aerospace Reports Mar 22 2022
Reading Empirical Research Studies Sep 15 2021 For the most part, those who teach writing and administer writing programs do not conduct research on writing. Perhaps more significantly, they do not often read the research done by others because effective reading of articles on empirical research requires special knowledge and abilities. By and large, those responsible for maintaining and improving writing instruction cannot -- without further training -- access work that could help them carry out their responsibilities more effectively. This book is designed as a text in graduate programs that offer instruction in rhetoric and composition. Its primary educational purposes are: * to provide models and critical methods designed to improve the reading of scientific discourse * to provide models of effective research designs and projects appropriate to those learning to do empirical research in rhetoric. Aiming to cultivate new attitudes toward empirical research, this volume encourages an appreciation of the rhetorical tradition that informs the production and critical reading of empirical studies. The book should also reinforce a slowly growing realization in English studies that empirical methods are not inherently alien to the humanities, rather that methods extend the power of humanist researchers trying to solve the problems of their discipline.
Journal of Research of the National Bureau of Standards Jan 08 2021
Inventory of advanced energy technologies and energy conservation research and development, 1976-1978 Nov 17 2021
NASA SP. Oct 17 2021
Intelligent Computing & Optimization Feb 18 2022 This book of Springer Nature is another proof of Springer's outstanding and greatness on the lively interface of Smart Computational Optimization, Green ICT, Smart Intelligence and Machine Learning! It is a Master Piece of what our community of academics and experts can provide when an Interconnected Approach of Joint, Mutual and Meta Learning is supported by Modern Operational Research and Experience of the World-Leader Springer Nature! The 5th edition of International Conference on Intelligent Computing and Optimization took place at October 27–28, 2022, via Zoom. Objective was to celebrate "Creativity with Compassion and Wisdom" with researchers, scholars, experts and investigators in Intelligent Computing and Optimization across the planet, to share knowledge, experience, innovation—a marvelous opportunity for discourse and mutuality by novel research, invention and creativity. This proceedings book of ICO'2022 is published by Springer Nature—Quality Label of wonderful.
Control of a Wind Driven Doubly Fed Induction Generator During Grid Faults Jan 20 2022 Master's Thesis from the year 2013 in the subject Engineering - Power Engineering, grade: none, , course: Electrical engineering (Renewable energy), language: English, abstract: Wind electrical power systems are recently getting lot of attention, because they are cost competitive, environmental clean and safe renewable power source, as compared with fossil fuel and nuclear power generation. A special type of induction generator, called a doubly fed induction generator (DFIG), is used extensively for high-power wind applications. They are used more and more in wind turbine applications due to ease controllability, high energy efficiency and improved power quality. This thesis aims to develop a method of a field orientation scheme for control both the active and reactive powers of a DFIG driven by a wind turbine.The proposed control system consists of a wind turbine that drives a DFIG connected to the utility grid through AC-DC-AC link. The main control objective is to regulate the dc link voltage for operation at maximum available wind power.This is achieved by controlling the and axes components of voltages and currents for both rotor side and line side converters using PI controllers. The complete dynamic model of the proposed system is described in detail. Computer simulations have been carried out in order to validate the effectiveness of the proposed system during the variation of wind speed. The results prove that , better overall performances are achieved, quick recover from wind speed disturbances in addition to good tracking ability. Generally, any abnormalities associated with grid asymmetrical faults are going to affect the system performance considerably. During grid faults, unbalanced currents cause negative effects like overheating problems and mechanical stress due to high torque pulsations that can damage the rotor shaft, gearbox or blade assembly. Therefore, the dynamic model of the DFIG, driven by a wind turbine during grid faults has been analyzed and developed using the method of symmetrical components. The dynamic performance of the DFIG during unbalanced grid conditions is analyzed and described in detail using digital simulations. A novel fault ride-through (FRT) capability is proposed (i.e. the ability of the power system to remain connected to the grid during faults) with suitable control strategy in this thesis. In this scheme, the input mechanical energy of the wind turbine during grid faults is stored and utilized at the moment of fault clearance, instead of being dissipated in the resistors of the crowbar circuit as in the existing FRT schemes. [...]

Operation, Construction, and Functionality of Direct Current Machines Dec 19 2021 Direct current machines are a quickly evolving domain whose applications affect many aspects of modern life from computers and printers to toys, electric vehicles, and traction applications. As their many uses continue to grow, it has become apparent that understanding these machines is the key to understanding our future. Operation, Construction, and Functionality of Direct Current Machines brings together many concepts, from the most basic working principles and construction of DC machines to more advanced topics such as electro-magnetism, armature reaction, parallel operations, and many more. Highlighting theoretical concepts and numerical problems, this book is an essential reference source for students, educators, and anyone interested in the field of electric machines.

The Modelling of Symmetric Airfoil Vortex Generators Dec 07 2020 An experimental study is conducted to determine the dependence of vortex generator geometry and impinging flow conditions on shed vortex circulation and crossplane peak vorticity for one type of vortex generator. The vortex generator is a symmetric airfoil having a NACA 0012 cross-sectional profile. The vortex generators are mounted either in isolation or in a symmetric counter-rotating array configuation on the inside surface of a straight pipe. The turbulent boundary layer thickness-to-pipe radius ratio is 0.17. Circulation and peak vorticity data are derived from crossplane velocity measurements conducted at or about 1 chord downstream of the vortex generator trailing edge. Shed vortex circulation is observed to be proportional to Mach number, angle of attack and space to boundary-layer thickness. With these parameters held constant, circulation is observed to fall off in monotonic fashion with increasing airfoil aspect ratio. Shed vortex peak vorticity is also observed to be proportional to the aforementioned parameters. Unlike circulation, however, peak vorticity is observed to increase with increasing aspect ratio.

Advances in Power and Energy Engineering Nov 25 2019 Energy and power are playing pivotal roles in social and economic developments of the modern world. Energy and power engineers and technologists have made our lives much more comfortable and affordable. However, due to the demands of the global population on resources and the environment, innovations of more reliable and sustainable energy res

Translations of a Special Collection of Fifteen Papers on Electronic Music Published by the Northwest German Broadcasting System, in Technische Hausmitteilungen Des Nordwestdeutschen Rundfunks, 6:4-54 Oct 24 2019

MLA Style Manual and Guide to Scholarly Publishing Jul 26 2022 Provides information on stylistic aspects of research papers, theses, and dissertations, including sections on writing fundamentals, MLA documentation style, and copyright law

Power System Protection Aug 15 2021 A newly updated guide to the protection of power systems in the 21st century Power System Protection, 2nd Edition combines brand new information about the technological and business developments in the field of power system protection that have occurred since the last edition was published in 1998. The new edition includes updates on the effects of short circuits on: Power quality Multiple setting groups Quadrilateral distance relay characteristics Loadability It also includes comprehensive information about the impacts of business changes, including deregulation, disaggregation of power systems, dependability, and security issues. Power System Protection provides the analytical basis for design, application, and setting of power system protection equipment for today's engineer. Updates from protection engineers with distinct specializations contribute to a comprehensive work covering all aspects of the field. New regulations and new components included in modern power protection systems are discussed at length. Computer-based protection is covered in-depth, as is the impact of renewable energy systems connected to distribution and transmission systems.

The Literature Review Sep 23 2019 Lecturers - request an e-inspection copy of this text or contact your local SAGE representative to discuss your course needs. This second edition of Diana Ridley's bestselling book provides a step-by-step guide to conducting a literature search and literature review, using cases and examples throughout to demonstrate best practice. Ridley outlines practical strategies for conducting a systematic search of the available literature, reading and note taking and writing up your literature review as part of an undergraduate research project, Masters dissertation or PhD thesis. New to this edition are: Examples drawn from a wide range of disciplines A new chapter on conducting systematic reviews Increased guidance on evaluating the quality of online sources and online literature Enhanced guidance in dealing with copyright and permissions issues. Visit the Companion Website for The Literature Review This book also comes with a companion website containing a wide range of examples of successful literature reviews from various academic disciplines. SAGE Study Skills are essential study guides for students of all levels. From how to write great essays and succeeding at university, to writing your undergraduate dissertation and doing postgraduate research, SAGE Study Skills help you get the best from your time at university. Visit the SAGE Study Skills website for tips, quizzes and videos on study success!

ERDA Energy Research Abstracts Apr 22 2022

Smart Computing Jun 24 2022 The field of SMART technologies is an interdependent discipline. It involves the latest burning issues ranging from machine learning, cloud computing, optimisations, modelling techniques, Internet of Things, data analytics, and Smart Grids among others, that are all new fields. It is an applied and multi-disciplinary subject with a focus on Specific, Measurable, Achievable, Realistic & Timely system operations combined with Machine intelligence & Real-Time computing. It is not possible for any one person to comprehensively cover all aspects relevant to SMART Computing in a limited-extent work. Therefore, these conference proceedings address various issues through the deliberations by distinguished Professors and researchers. The SMARTCOM 2020 proceedings contain tracks dedicated to different areas of smart technologies such as Smart System and Future Internet, Machine Intelligence and Data Science, Real-Time and VLSI Systems, Communication and Automation Systems. The proceedings can be used as an advanced reference for research and for courses in smart technologies taught at graduate level.

U.S. Government Research Reports Oct 29 2022

Energy Research Abstracts Aug 03 2020

Nuclear Science Abstracts Aug 27 2022

Scientific and Technical Translation Explained Jan 26 2020 From microbiology to nuclear physics and chemistry to software engineering, scientific and technical translation is a complex activity that involves communicating specialized information on a variety of subjects across multiple languages. It requires expert linguistic knowledge and writing skills, combined with the ability to research and understand complex concepts and present them to a range of different audiences. Using a combination of interdisciplinary research, real-world examples drawn from professional practice and numerous learning activities, this introductory textbook equips the student with the knowledge and skills needed to get started in this exciting and challenging field. It examines the origins and history of scientific and technical translation, and the people, tools and processes involved in translating scientific and technical texts. Scientific and Technical Translation Explained provides an overview of the main features of scientific and technical discourse as well as the different types of documents produced. A series of detailed case studies highlight various translation challenges and introduce a range of strategies for dealing with them. A variety of resources and exercises are included to make learning effective and enjoyable. Additional resources and activities are available on Facebook.

Suggestions to Medical Authors and A.M.A. Style Book May 24 2022

Energy: a Continuing Bibliography with Indexes Feb 27 2020