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Virtual Reality in Education: Breakthroughs in Research and Practice IGI Global

As society continues to experience increases in technological innovations, various industries must rapidly adapt and

learn to incorporate these advances. When utilized effectively, the use of computer systems in educational settings creates a richer learning environment for students. The Handbook of Research on 3-D Virtual Environments and Hypermedia for Ubiquitous Learning is a critical reference source for the latest research on the application of virtual reality in educational environments and how the immersion into three-dimensional settings enhances

student motivation and interaction. Exploring innovative techniques and emerging trends in virtual learning and hypermedia, this book is ideally designed for researchers, developers, upper-level students, and educators interested in the incorporation of immersive technologies in the learning process. [A Practical Approach](#) SAGE Publications
A component in the America's Energy Future study, Electricity from Renewable

Resources examines the technical potential for electric power generation with alternative sources such as wind, solar-photovoltaic, geothermal, solar-thermal, hydroelectric, and other renewable sources. The book focuses on those renewable sources that show the most promise for initial commercial deployment within 10 years and will lead to a substantial impact on the U.S. energy system. A quantitative characterization of technologies, this book lays out expectations of costs, performance, and impacts, as well as barriers and research and development needs. In addition to a principal focus on renewable energy technologies for power generation, the book addresses the challenges of incorporating such technologies into the power grid, as well as potential improvements in the national electricity grid that could enable better and more extensive utilization of wind, solar-thermal, solar photovoltaics, and other renewable technologies.

Findex Springer Science & Business Media

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Grant Proposal Guide Routledge
Lecturers, request your electronic inspection copy This is your step-by-step guide to success with your research proposal. This new edition covers every section of the proposal, telling you all you need to know on how to structure it, bring rigour to your methods section, impress your readers and get your proposal accepted. With practical tips and advice throughout, new features include: Comprehensive explanation of method and methodology, and how to maximize this crucial section of your proposal A new section on mixed methods: an increasingly common approach in research A new chapter on how to get it right with ethics Fresh exercises and activities, now for each key chapter. The Third Edition provides an authoritative and accessible guide for anyone tackling a research proposal. It is perfect for students in education, nursing, health, and across the social sciences.

Hispanic Engineer & IT National Academies Press

Organizations need research, and

managers have to be able to commission, judge and use others' research as well as conduct research themselves to inform business decisions. Business Research Methods helps you understand the challenges of carrying out worthwhile research into significant issues and develop a wide range of research-related professional skills. Guiding you through the process of selecting, carrying out and reporting on a successful research project, it breaks down the research process, from exploring the literature and crafting a research proposal to practical research management and addressing the transferable skills of project management and communication. Business Research Methods places research firmly in the real world, exploring why research is done and how to ensure that projects are meaningful for organizations. Examples and case studies, including examples of students' projects, give learners with little or no work experience a meaningful context in which to relate their own projects. Online supporting resources for lecturers include an instructor's manual with additional activities and supporting handouts, lecture slides and figures and

tables from the text. Resources for students include web links, templates, quizzes, activities, examples of practice and sample questionnaire results for students.

Developing Image and Video Compression Systems John Wiley & Sons

Hispanic Engineer & Information

Technology is a publication devoted to science and technology and to promoting opportunities in those fields for Hispanic Americans.

Developing Effective Research Proposals CRC Press

For multi-user PDF licensing, please contact customer service. Energy touches our lives in countless ways and its costs are felt when we fill up at the gas pump, pay our home heating bills, and keep businesses both large and small running. There are long-term costs as well: to the environment, as natural resources are depleted and pollution contributes to global climate change, and to national security and independence, as many of the world's current energy sources are increasingly concentrated in geopolitically unstable regions. The country's challenge is to develop an energy portfolio that

addresses these concerns while still providing sufficient, affordable energy reserves for the nation. The United States has enormous resources to put behind solutions to this energy challenge; the dilemma is to identify which solutions are the right ones. Before deciding which energy technologies to develop, and on what timeline, we need to understand them better. America's Energy Future analyzes the potential of a wide range of technologies for generation, distribution, and conservation of energy. This book considers technologies to increase energy efficiency, coal-fired power generation, nuclear power, renewable energy, oil and natural gas, and alternative transportation fuels. It offers a detailed assessment of the associated impacts and projected costs of implementing each technology and categorizes them into three time frames for implementation.

Technology and Transformation Springer
How to Design, Write, and Present a Successful Dissertation Proposal, by Elizabeth A. Wentz, is essential reading for any graduate student entering the dissertation process in the social or behavioral sciences. The book addresses

the importance of ethical scientific research, developing your curriculum vitae, effective reading and writing, completing a literature review, conceptualizing your research idea, and translating that idea into a realistic research proposal using research methods. The author also offers insight into oral presentations of the completed proposal, and the final chapter presents ideas for next steps after the proposal has been presented. Taking the view that we "learn by doing," the author provides Quick Tasks, Action Items, and To Do List activities throughout the text that, when combined, develop each piece of your research proposal. Designed primarily for quantitative or mixed methods research dissertations, this book is a valuable start-to-finish resource.

Essentials of Research Design and Methodology Springer Nature

Video compression coding is the enabling technology behind a new wave of communication applications. From streaming internet video to broadcast digital television and digital cinema, the video codec is a key building block for a host of new multimedia applications and

services. Video Codec Design sets out to de-mystify the subject of video coding and present a practical, design-based approach to this emerging field. Featuring:

- * Guidance on the practical design and implementation of video coding technology.
- * Explanation of the major video coding standards, including MPEG-2, MPEG-4, H.263 and H.26L.
- * Detailed coverage of key video coding techniques and core algorithms.
- * Examination of critical design issues including transmission, Quality of Service and processing platforms.
- * A wealth of illustrations and practical examples, including quantitative comparisons of design alternatives.

Video Codec Design provides communications engineers, system designers, researchers and technical managers with an essential handbook to image and video compression technology. The clear presentation and emphasis on real-life examples make this book an excellent teaching tool for computer science and electronic engineering instructors.

Department of Housing and Urban Development--independent agencies appropriations for 1982 National

Academies Press

The electric power delivery system that carries electricity from large central generators to customers could be severely damaged by a small number of well-informed attackers. The system is inherently vulnerable because transmission lines may span hundreds of miles, and many key facilities are unguarded. This vulnerability is exacerbated by the fact that the power grid, most of which was originally designed to meet the needs of individual vertically integrated utilities, is being used to move power between regions to support the needs of competitive markets for power generation. Primarily because of ambiguities introduced as a result of recent restricting the of the industry and cost pressures from consumers and regulators, investment to strengthen and upgrade the grid has lagged, with the result that many parts of the bulk high-voltage system are heavily stressed. Electric systems are not designed to withstand or quickly recover from damage inflicted simultaneously on multiple components. Such an attack could be carried out by knowledgeable attackers

with little risk of detection or interdiction. Further well-planned and coordinated attacks by terrorists could leave the electric power system in a large region of the country at least partially disabled for a very long time. Although there are many examples of terrorist and military attacks on power systems elsewhere in the world, at the time of this study international terrorists have shown limited interest in attacking the U.S. power grid. However, that should not be a basis for complacency. Because all parts of the economy, as well as human health and welfare, depend on electricity, the results could be devastating. Terrorism and the Electric Power Delivery System focuses on measures that could make the power delivery system less vulnerable to attacks, restore power faster after an attack, and make critical services less vulnerable while the delivery of conventional electric power has been disrupted.

Hearings Before the Special Committee on Aging, United States Senate, Ninety-third Congress, Second Session -[Ninety-sixth Congress, First Session] John Wiley & Sons

BASIC MARKETING RESEARCH, 9E balances a reader-friendly approach with an ideal level of coverage. The authors introduce two dominant approaches to gathering marketing information: marketing analytics on data that exist within the firm and customer insights gathered for a specific purpose. The book merges these approaches in an ongoing example in the analysis section. Readers review data from multiple sources, including consumer communication and consumer behavior observed through technology. An overview details how organizations obtain and use data today. Readers learn how interactions among parts of the research process give managers and researchers confidence in the results. Readers review the information-gathering function from the perspectives of researchers who gather information and marketing managers who use it. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Model-Based Design and Simulation

IGI Global

ISAmI is the International Symposium on

Ambient Intelligence, and aims to bring together researchers from various disciplines that are interested in all aspects of Ambient Intelligence. The symposium provides a forum to present and discuss the latest results, innovative projects, new ideas and research directions, and to review current trends in this area. This volume presents the papers that have been accepted for the 2011 edition, both for the main event and workshop. The ISAmI workshop WoRIE promises to be a very interesting event that complements the regular program with an emerging topic on reliability of intelligent environments

Status, Prospects, and Impediments UTeM Press

This book provides an account of the field of synchronized Phasor Measurement technology, its beginning, its technology and its principal applications. It covers wide Area Measurements (WAM) and their applications. The measurements are done using GPS systems and eventually will replace the existing technology. The authors created the field about twenty years ago and most of the installations planned or now in existence around the

world are based on their work.

Practical Control of Electric Machines

Kogan Page Publishers

Dielectrics in Electric Fields explores the influence of electric fields on dielectric—i.e., non-conducting or insulating—materials, examining the distinctive behaviors of these materials through well-established principles of physics and engineering. Featuring five new chapters, nearly 200 new figures, and more than 800 new citations, this fully updated and significantly expanded Second Edition: Analyzes inorganic substances with real-life applications in harsh working conditions such as outdoor, nuclear, and space environments Introduces methods for measuring dielectric properties at microwave frequencies, presenting results obtained for specific materials Discusses the application of dielectric theory in allied fields such as corrosion studies, civil engineering, and health sciences Combines in one chapter coverage of electrical breakdown in gases with breakdown in micrometric gaps Offers extensive coverage of electron energy distribution—essential knowledge required

for the application of plasma sciences in medical science Delivers a detailed review of breakdown in liquids, along with an overview of electron mobility, providing a clear understanding of breakdown phenomena Explains breakdown in solid dielectrics such as single crystals, polycrystalline and amorphous states, thin films, and powders compressed to form pellets Addresses the latest advances in dielectric theory and research, including cutting-edge nanodielectric materials and their practical applications Blends early classical papers that laid the foundation for much of the dielectric theory with more recent work The author has drawn from more than 55 years of research studies and experience in the areas of high-voltage engineering, power systems, and dielectric materials and systems to supply both aspiring and practicing engineers with a comprehensive, authoritative source for up-to-date information on dielectrics in electric fields.

Electricity from Renewable Resources CRC Press

Master the essential skills for designing and conducting a successful research project *Essentials of Research Design and*

Methodology contains practical information on how to design and conduct scientific research in the behavioral and social sciences. This accessible guide covers basic to advanced concepts in a clear, concrete, and readable style. The text offers students and practitioners in the behavioral sciences and related disciplines important insights into identifying research topics, variables, and methodological approaches. Data collection and assessment strategies, interpretation methods, and important ethical considerations also receive significant coverage in this user-friendly guide. *Essentials of Research Design and Methodology* is the only available resource to condense the wide-ranging topics of the field into a concise, accessible format for handy and quick reference. As part of the *Essentials of Behavioral Science* series, this book offers a thorough review of the most relevant topics in research design and methodology. Each concise chapter features numerous callout boxes highlighting key concepts, bulleted points, and extensive illustrative material, as well as "Test Yourself" questions that help you gauge and reinforce your grasp of the

information covered.

Supplements SAGE

Modern technology has infiltrated many facets of society, including educational environments. Through the use of virtual learning, educational systems can become more efficient at teaching the student population and break down cost and distance barriers to reach populations that traditionally could not afford a good education. *Virtual Reality in Education: Breakthroughs in Research and Practice* is an essential reference source on the uses of virtual reality in K-12 and higher education classrooms with a focus on pedagogical and instructional outcomes and strategies. Highlighting a range of pertinent topics such as immersive virtual learning environments, virtual laboratories, and distance education, this publication is an ideal reference source for pre-service and in-service teachers, school administrators, principles, higher education faculty, K-12 instructors, policymakers, and researchers interested in virtual reality incorporation in the classroom.

Basic Steps in Planning Nursing Research National Academies Press

The integrity of knowledge that emerges from research is based on individual and collective adherence to core values of objectivity, honesty, openness, fairness, accountability, and stewardship. Integrity in science means that the organizations in which research is conducted encourage those involved to exemplify these values in every step of the research process. Understanding the dynamics that support " or distort " practices that uphold the integrity of research by all participants ensures that the research enterprise advances knowledge. The 1992 report *Responsible Science: Ensuring the Integrity of the Research Process* evaluated issues related to scientific responsibility and the conduct of research. It provided a valuable service in describing and analyzing a very complicated set of issues, and has served as a crucial basis for thinking about research integrity for more than two decades. However, as experience has accumulated with various forms of research misconduct, detrimental research practices, and other forms of misconduct, as subsequent empirical research has revealed more about the nature of scientific misconduct, and

because technological and social changes have altered the environment in which science is conducted, it is clear that the framework established more than two decades ago needs to be updated. *Responsible Science* served as a valuable benchmark to set the context for this most recent analysis and to help guide the committee's thought process. *Fostering Integrity in Research* identifies best practices in research and recommends practical options for discouraging and addressing research misconduct and detrimental research practices. *The Electrical Engineer* John Wiley & Sons Investigators, their home institutions, and funding agencies play significant roles in the development and outcomes of scientific projects. Submitting a proposal to a funding agency is only one dimension of a multivariable and complex funding process, and understanding this is a good first step toward unlocking the puzzle behind why some research proposals receive awards while others are declined. *The Handbook of Scientific Proposal Writing* offers researchers and research administrators a broad perspective on the process of initiating and conducting

funded scientific research projects. Written for students and researchers in all fields and disciplines, this reference offers a holistic approach to conceiving and then converting new ideas into effective proposals. It focuses on the technical aspects of writing proposals rather than the fund-raising issues. Chapters provide full coverage of the scientific method, including information on how scientific research should be conducted. Providing the tools necessary to organize ideas and obtain the funds needed to effectively manage projects, the *Handbook of Scientific Proposal Writing* includes: 56 figures and 25 tables to help convey key ideas More than 150 citations that provide pointers to additional sources for further reading Examples to help the reader ease through more abstract concepts End-of-chapter questions to stimulate further examination and comprehension *Instantaneous Power Theory and Applications to Power Conditioning* Cengage Learning First Published in 2010. Routledge is an imprint of Taylor & Francis, an informa company. [Business Research Methods \(Book Only\)](#)

Writing A Research Proposal

This book presents deep analysis of machine control for different applications, focusing on its implementation in embedded systems. Necessary peripherals for various microcontroller families are analysed for machine control and software architecture patterns for high-quality software development processes in motor control units are described. Abundant figures help the reader to understand the theoretical, simulation and practical implementation stages of machine control. Model-based design, used as a mathematical and visual approach to construction of complex control algorithms, code generation that eliminates hand-coding errors, and co-

simulation tools such as Simulink, PSIM and finite element analysis are discussed. The simulation and verification tools refine, and retest the models without having to resort to prototype construction. The book shows how a voltage source inverter can be designed with tricks, protection elements, and space vector modulation. Practical Control of Electric Machines: Model-Based Design and Simulation is based on the author's experience of a wide variety of systems in domestic, automotive and industrial environments, and most examples have implemented and verified controls. The text is ideal for readers looking for an insight into how electric machines play an important role in most real-life

applications of control. Practitioners and students preparing for a career in control design applied in electric machines will benefit from the book's easily understood theoretical approach to complex machine control. The book contains mathematics appropriate to various levels of experience, from the student to the academic and the experienced professional. Advances in Industrial Control reports and encourages the transfer of technology in control engineering. The rapid development of control technology has an impact on all areas of the control discipline. The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control.

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