

**ELECTRICAL ENGINEERING COURSES**

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# Online Electrical Tutorials

**Management Association, Information  
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## **Online Electrical Tutorials:**

*Handbook of Research on Inequities in Online Education During Global Crises* Kyei-Blankson, Lydia, Blankson, Joseph, Ntuli, Esther, 2021-05-07 In response to the COVID 19 pandemic many educational institutions implemented social distancing interventions such as initiating closure developing plans for employees to work remotely and transitioning teaching and learning from face to face classrooms to online environments The abrupt switch to online teaching and learning for the most part has been a massive change for administration faculty and students at traditional brick and mortar universities and colleges as concerns regarding the pedagogical soundness of this mode of delivery remain among some stakeholders Not only that but the switch has also revealed the inequities in the system when it comes to the types of students universities serve It is important as institutions move forward with online instruction that consideration be made about all students and what policies and strategies need to be put into place to help support and meet the needs of all constituents now or when unprecedented situations arise The only way this can be done is by documenting the experiences through the eyes of faculty who were at the frontline of providing instruction and advising services to students The Handbook of Research on Inequities in Online Education During Global Crises brings to light the struggles faculty and students faced as they were required to switch to online education during the global COVID 19 health crisis This crisis has revealed inequities in the educational system as well as the specific effects of inequities when it comes to learning online and the chapters in this book provide information to help institutions be better prepared for online education or remote learning in the future While highlighting topics such as new educational trends remote instruction diversity in education and teaching and learning in a pandemic this book is ideal for in service and preservice teachers administrators teacher educators practitioners stakeholders researchers academicians and students interested in the inequalities within the educational systems and the new policies and strategies put in place with online education to combat these issues and support the needs of all diverse student populations *Research Anthology on Remote Teaching and Learning and the Future of Online Education* Management Association, Information Resources, 2022-09-02 The sudden implementation of emergency health procedures at the start of the COVID 19 pandemic forced many educators and educational institutions to explore new territory in terms of policy teaching strategy and more Now that many institutions are familiar with online education innovations have been developed and implemented It is essential to study these best practices and innovations that have been developed in remote teaching and learning to better understand the future of online education The Research Anthology on Remote Teaching and Learning and the Future of Online Education explores the recent developments strategies and innovations in remote teaching and learning that have been implemented globally Covering topics such as emergency remote teaching psycho social well being and cross cultural communication this major reference work is an indispensable resource for educators and administrators of both K 12 and higher education pre service teachers teacher educators librarians government officials IT

managers researchers and academicians

### **Understanding Communications Systems Principles A Tutorial Approach**

Héctor J. De Los Santos, 2022-09-01 Wireless communications and sensing systems are nowadays ubiquitous cell phones and automotive radars typifying two of the most familiar examples This book introduces the field by addressing its fundamental principles proceeding from its very beginnings up to today s emerging technologies related to the fifth generation wireless systems 5G Multi Input Multiple Output MIMO connectivity and Aerospace Electronic Warfare Radar The tone is tutorial Problems are included at the end of each chapter to facilitate the understanding and assimilation of the material to electrical engineering undergraduate graduate students and beginning and non specialist professionals Free temporary access to Keysight s SystemVue system simulation is provided to further enhance reader learning through hands on tutorial exercises Chapter 1 introduces wireless communications and sensing and in particular how curiosity driven scientific research led to the foundation of the field Chapter 2 presents a brief introduction to the building blocks that make up wireless systems Chapter 3 focuses on developing an understanding of the performance parameters that characterize a wireless system Chapter 4 deals with circuit topologies for modulation and detection In chapter 5 we cover the fundamental transmitter and receiver systems architectures that enable the transmission of information at precise frequencies and their reception from among a rather large multitude of other signals present in space Chapter 6 introduces 5G its motivation and its development and adoption challenges for providing unprecedented levels of highest speed wireless connectivity Chapter 7 takes on the topic of MIMO its justification and its various architectures Chapter 8 addresses the topic of aerospace electronic warfare radar and finally Chapter 9 presents three Tutorials utilizing the SystemVue simulation tool *Electric Grid Modernization*

Mahmoud Ghofrani, 2022-07-13 Electrical grids worldwide are experiencing major changes in terms of energy generation transmission delivery and distribution in order to enhance the entire system s control reliability efficiency and safety Advanced energy systems and technologies such as renewable sources of energy energy storage systems and electric vehicles EVs as well as equipment such as sensors smart meters and communication devices along with innovations in computing technologies machine learning and data analytics are used to modernize the electric grid and the way it is planned operated and managed This book provides an overview of several aspects of grid modernization including micro grids smart grids energy storage and communication systems Hardware Hacking Joe Grand, Kevin D. Mitnick, Ryan

Russell, 2004-01-29 If I had this book 10 years ago the FBI would never have found me Kevin Mitnick This book has something for everyone from the beginner hobbyist with no electronics or coding experience to the self proclaimed gadget geek Take an ordinary piece of equipment and turn it into a personal work of art Build upon an existing idea to create something better Have fun while voiding your warranty Some of the hardware hacks in this book include Don t toss your iPod away when the battery dies Don t pay Apple the 99 to replace it Install a new iPod battery yourself without Apple s help An Apple a day Modify a standard Apple USB Mouse into a glowing UFO Mouse or build a FireWire terabyte hard drive and

custom case Have you played Atari today Create an arcade style Atari 5200 paddle controller for your favorite retro videogames or transform the Atari 2600 joystick into one that can be used by left handed players Modern game systems too Hack your PlayStation 2 to boot code from the memory card or modify your PlayStation 2 for homebrew game development Videophiles unite Design build and configure your own Windows or Linux based Home Theater PC Ride the airwaves Modify a wireless PCMCIA NIC to include an external antenna connector or load Linux onto your Access Point Stick it to The Man Remove the proprietary barcode encoding from your CueCat and turn it into a regular barcode reader Hack your Palm Upgrade the available RAM on your Palm m505 from 8MB to 16MB Includes hacks of today s most popular gaming systems like Xbox and PS 2 Teaches readers to unlock the full entertainment potential of their desktop PC Frees iMac owners to enhance the features they love and get rid of the ones they hate     The Java Tutorial Mary Campione,Kathy Walrath,Alison Huml,2001 Based on the online version that has become one of the world s most visited programmer documentation sites this is a remarkably clear practical hands on introduction to the Java 2 Platform The bonus CD ROM contains all major versions of the Java Platform     Cross Reality and Data Science in Engineering Michael E. Auer,Dominik May,2020-08-20 Today online technologies are at the core of most fields of engineering and society as a whole This book discusses the fundamentals applications and lessons learned in the field of online and remote engineering virtual instrumentation and other related technologies like Cross Reality Data Science Big Data Internet of Things Industrial Internet of Things Industry 4 0 Cyber Security and M2M Smart Objects Since the first Remote Engineering and Virtual Instrumentation REV conference in 2004 the event has focused on the use of the Internet for engineering tasks as well as the related opportunities and challenges In a globally connected world interest in online collaboration teleworking remote services and other digital working environments is rapidly increasing In this context the REV conferences discuss fundamentals applications and experiences in the field of Online and Remote Engineering as well as Virtual Instrumentation Furthermore the conferences focus on guidelines and new concepts for engineering education in higher and vocational education institutions including emerging technologies in learning MOOCs MOOLs and open resources This book presents the proceedings of REV2020 on Cross Reality and Data Science in Engineering which was held as the 17th in series of annual events It was organized in cooperation with the Engineering Education Transformations Institute and the Georgia Informatics Institutes for Research and Education and was held at the College of Engineering at the University of Georgia in Athens GA USA from February 26 to 28 2020     **Library Currents** ,2001     *Fundamentals of Electric Circuits* Charles K. Alexander,Matthew N. O. Sadiku,2004     *Internet Tools* Herbert Brown,2001-08-28 Internet Tools teaches how to harness the power of the Internet in 10 short lessons that quickly and thoroughly reinforce the lesson content In addition to research this book covers areas like shopping communication community education productivity entertainment investing and protecting updating one s computer     **Computer Science and Computing** Michael Knee,2006 Publishers description Michael Knee offers a selective guide to the major resources and

tools central to the computer industry A discussion of three commonly used subject classification systems precedes an annotated bibliography of over 500 items      **Building a Web-Based Education System** Colin McCormack,David Jones,1998 Here is the how to book for setting up a distance learning program on the Web First touching on the principles of online education this book discusses five different systems supplying code screen shots and ideas for customization The CD ROM contains templates for online university classrooms with HTML C Perl scripts and Java files that can be customized

*A Tutorial Guide to AutoCAD 2006* Shawna D. Lockhart,2006 A Tutorial Guide to AutoCAD 2006 provides a step by step introduction to AutoCAD with commands taught in context In 15 clear and comprehensive sessions author Shawna Lockhart guides readers through all the important commands and techniques in AutoCAD 2006 from 2D to solid modeling In each lesson the author provides step by step instructions with frequent illustrations showing exactly what appears on the AutoCAD screen Later individual steps are no longer provided and readers are asked to apply what they ve learned by completing sequences on their own Carefully developed pedagogy reinforces this cumulative learning approach and supports readers in becoming skilled AutoCAD users Introduction to AutoCADBasic Construction Techniques Basic Editing and Plotting TechniquesGeometric Constructions Template Drawings and More Plotting 2D Orthographic Drawings Dimensioning Advanced Dimensioning Section and Auxiliary Views Blocks Design Center and Tool Palettes Introduction to Solid Modeling Changing and Plotting Solid Models Creating Assembly Drawings from Solid Models Solid Modeling for Section and Auxiliary Views Rendering      **Guide to Distance Learning Programs** University Continuing Education Association,2001

**Magazines for Libraries** William A. Katz,2006      **Free and Low-cost Software for Scientists and Engineers** Harley Bjelland,1994 This book sifts through the mountain of free and low cost software and distills it into a compendium of the top recommended programs Each chapter is devoted to one specific type of software Readers can use the author s convenient step by step evaluation procedures to assess additional software on their own Disk contains sample programs

**Online Guide to Medical Research** Michelle Kienholz,1999 Discover how to use the Internet to locate primary sources for medical information This focused guide zeros in on the most valuable sites and techniques for staying up to date on medical issues grasping new technologies and enhancing medical practice Companion CD software Data zip 1MB Demos zip 2 1MB Resource zip 1 4MB      **International Journal of Continuing Engineering Education** ,2001      **New**

**Perspectives on Computer Concepts** June Jamrich Parsons,Dan Oja,2004 Revised to keep your students on top of our ever changing world of emerging technology this is your solution for staying current and keeping your students engaged in an information age Features Each lesson is presented on two facing pages with the main points discussed on the left hand page and large illustrated on the right Students learn all they need about a topic without turning the page The modular structure of the book allows you to cover the units and lessons in any order Computers in Context lessons highlight how computer technology is used in various fields such as sports education and law enforcement Students can use the new companion Web

site activities to reinforce the concepts that they have learned in the book New material and photos added to this Fifth edition will keep you current including coverage of Tablet computers wireless networks a new lesson on Solid State Storage Technology an updated and revamped lesson on Defining database software and a new lesson on introducing DHTML and XML An Interactive CD accompanies the book and contains videos and screentours InfoWebs Interactive Exercises Practice Tests and Labs Icons placed throughout the book direct students to the CD putting the concepts on context From publisher description     **New Perspectives on the Internet** James T. Perry, Gary P. Schneider, 1999 Part of our New Perspectives Series this text offers a case oriented problem solving approach for learning the basic to more advanced features of the Internet from browsing navigating and searching on the Internet to using e mail advanced communication tools and other Web topics

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