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made to break is a history of twentieth century technology as seen through the prism of obsolescence giles slade explains how disposability was a necessary condition for america s rejection of tradition and our acceptance of change and impermanence this book gives us a detailed and harrowing picture of how by choosing to support ever shorter product lives we may well be shortening the future of our way of life as well if you like to learn by doing this book shows you to design and document mechanical components one step at a time brief explanations followed by step by step instructions and a real world example make it a good starting point to learn creo parametric the author introduces the user interface and then starts solid modeling you will learn to draw sketches create 3d parts assemble them create drawings sheet metal parts and design complex shapes using surface modeling tools the examples in this book help you to discover the use of various tools and capabilities of creo parametric following are some of the skills you acquire after completing this book a good command over the user interface create and edit parametric sketches create basic and complex solid models create assemblies using bottom up and top down approaches create manufacturing drawings sheet metal design create and edit splines create complex and ergonomic surfaces creo parametric 7 0 basics is a self study guide you can learn various tools or work with examples in both ways you can develop a good foundation in solid modeling the freecad 0 18 basics tutorial book is an essential guide for engineers and designers without any experience in computer aided design this book teaches you the basics you need to know to start using freecad with easy to understand step by step tutorials the author begins by getting you familiar with the freecad interface and its essential tools you will learn to model parts and create assemblies next you will learn some additional part modeling tools create drawings create

sheet metal perform finite element analysis generate toolpaths for manufacturing this third edition of the classic human anatomy atlas presents a total of 534 of netter's own accurate clear and precisely rendered illustrations along with 8 new netter style surface anatomy drawings by carlos a g machado this recommended practice provides short circuit current information including calculated short circuit current duties for the application in industrial plants and commercial buildings at all power system voltages of power system equipment that senses carries or interrupts short circuit currents an introductory text electricity and electronics fundamentals delineates key concepts in electricity using a simplified approach that enhances learning mathematical calculations are kept to the very minimum and concepts are demonstrated through application examples and illustrations the books span of topics includes vital information on direct current electronics alternating current electricity and semiconductor devices as well as electronic circuits digital electronics computers and microprocessors electronic communications and electronic power control supplementary appendices provide a glossary and section on electrical safety along with an explanation of soldering techniques this book addresses selected topics in electrical engineering electronics and mechatronics that have posed serious challenges for both the scientific and engineering communities in recent years the topics covered range from mathematical models of electrical and electronic components and systems to simulation tools implemented for their analysis and further developments and from multidisciplinary optimization signal processing methods and numerical results to control and diagnostic techniques by bridging theory and practice in the modeling design and optimization of electrical electromechanical and electronic systems and by adopting a multidisciplinary perspective the book provides researchers and practitioners with timely and extensive information on the state of the art in the field and a source of new exciting ideas for further developments and collaborations the book presents selected results of the xiii scientific conference on selected issues of electrical engineering and electronics wzec 2016 held on may 04 08 2016 in rzeszów poland the conference was

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leading ecofriendly contenders to modernize and replace our current grid describing each proposed technology and how it works other relevant information is also provided such as a qualitative assessment of the pluses minuses and limitations of each system and an assessment of that technology s potential to contribute to our future electrical appetite lock down next generation services this book concisely identifies the types of attacks which are faced daily by 2 0 sites and the authors give solid practical advice on how to identify and mitigate these threats max kelly cissp cipp cfce senior director of security facebook protect your 2 0 architecture against the latest wave of cybercrime using expert tactics from internet security professionals hacking exposed 2 0 shows how hackers perform reconnaissance choose their entry point and attack 2 0 based services and reveals detailed countermeasures and defense techniques you ll learn how to avoid injection and buffer overflow attacks fix browser and plug in flaws and secure ajax flash and xml driven applications real world case studies illustrate social networking site weaknesses cross site attack methods migration vulnerabilities and ie7 shortcomings plug security holes in 2 0 implementations the proven hacking exposed way learn how hackers target and abuse vulnerable 2 0 applications browsers plug ins online databases user inputs and html forms prevent 2 0 based sql xpath xquery ldap and command injection attacks circumvent xxe directory traversal and buffer overflow exploits learn xss and cross site request forgery methods attackers use to bypass browser security controls fix vulnerabilities in outlook express and acrobat reader add ons use input validators and xml classes to reinforce asp and net security eliminate unintentional exposures in asp net ajax atlas direct remoting sajax and gwt applications mitigate activex security exposures using sitelock code signing and secure controls find and fix adobe flash vulnerabilities and dns rebinding attacks the essential resource for oracle dbas fully updated and expanded manage a flexible highly available oracle database with help from the expert information contained in this exclusive oracle press guide fully revised to cover every new feature and utility oracle database 11g dba handbook shows how to perform a new installation upgrade from previous versions and figure

hardware and software for maximum efficiency and employ bulletproof security you will learn to automate the backup and recovery process provide transparent failover capability audit and tune performance and distribute your enterprise databases with oracle net plan and deploy permanent temporary and bigfile tablespaces optimize disk allocation cpu usage i o throughput and sql queries develop powerful database management applications guard against human errors using oracle flashback and oracle automatic undo management diagnose and tune system performance using oracle automatic workload repository and sql tuning sets implement robust security using authentication authorization fine grained auditing and fine grained access control maintain high availability using oracle real application clusters and oracle active data guard respond more efficiently to failure scenarios by leveraging the oracle automatic diagnostic repository and the oracle repair advisor back up and restore tables tablespaces and databases with oracle recovery manager and oracle data pump export and import work with networked databases data warehouses and vldbs put the latest oracle database 11g tools to work oracle total recall oracle flashback data archive and more this document was commissioned by the facility guidelines institute as the sole reference for acoustics in health care facilities it was written by the health care acoustics working group a permanent committee of the acoustics research council arc comprised of members of leading professional societies in acoustics noise control engineering acoustical consulting and related professions arc organized the health care working group in 2004 5 drawing its members from ten constituencies that range from medicine to law public policy architecture design and engineering in order to provide constructive guidance on sound and vibration based on research and best practices sound and vibration 2 0 has been adopted as the sole reference standard for acoustics in health care facilities by the 2010 fgi ashe guidelines for the design and construction of healthcare facilities used in 60 countries the us green building council s leed for healthcare used in 87 countries the green guide for health care v2 2 and the international code council s igcc 2011 sound and vibration are topics of increasing prominence in the design construction and operational

of healthcare facilities a satisfactory acoustical environment in a healthcare facility is now viewed as an essential component of effective healthcare sensible acoustical and privacy planning in the early design stages of a healthcare facility project can be solved effectively and affordably with a few strokes of the designer s pencil the recommended minimum design requirements presented in this work are therefore intended to aid designers in achieving satisfactory acoustical and privacy environments in healthcare facilities this handbook includes comprehensive practical and measureable guidelines for all aspects of acoustics in the design construction and evaluation of all types of healthcare facilities including large general hospitals specialized patient care facilities and ambulatory patient care facilities abstract this amendment specifies improved mechanisms as policies and medium access control enhancements to enable coexistence among license exempt systems based on ieee std 802.16 and to facilitate the coexistence of such systems with primary users keywords broadband wireless access bwa coexistence coexistence control channel coexistence mechanism coexistence protocol coexistence signaling contention based protocol license exempt ofdma radio standard was wireless access systems wirelessman wirelessman cx wirelessman ucp wireless metropolitan area network generally accepted methods of protection for ac motors are provided this guide identifies and summarizes the functions necessary for adequate protection of motors based on type size and application this guide does not purport to detail the protective requirements if all motors in every situation this book presents comprehensive coverage of the means to integrate renewable power namely wind and solar power it looks at new approaches to meet the challenges such as increasing interconnection capacity among geographical areas hybridisation of different distributed energy resources and building up demand response capabilities methods for performing tests specified in ieee std c57.12.01 1989 and other referenced standards applicable to dry type distribution and power transformers are described this standard is intended for use as a basis for performance safety and the proper testing of dry type distribution and power transformers this standard applies to all dry type transformers

instrument transformers step voltage and induction voltage regulators arc furnace transformers rectifier transformers specialty transformers and mine transformers abstract description of design types tables of 50 hz and 60 hz ratings supplementary ratings construction and available accessories are provided methods for performing routine and design tests applicable to liquid immersed single and three phase step voltage regulators are described winding resistance measurements polarity tests insulation power factor and resistance tests ratio tests no load loss and excitation current measurements impedance and load loss measurements dielectric tests temperature tests routine and design impulse tests short circuit tests control tests calculated data and certified test data are covered keywords control design tests position indicator routine tests series transformer tap changer type a type b voltage regulator the protection of shunt power capacitor and filter banks are covered guidelines for reliable applications of protection methods intended for use in many shunt capacitor applications and designs are included the protection of pole mounted capacitor banks on distribution circuits and the application of capacitors connected directly to routing apparatus are not included the synchronizing input and the data output for phasor measurements made by substation computer systems is discussed processes involved in computing phasors from sampled data data to phasor conversions and formats for timing inputs and phasor data output from a phasor measurement unit pmu are also addressed

Made to Break 2009-06-30

made to break is a history of twentieth century technology as seen through the prism of obsolescence giles slade explains how disposability was a necessary condition for america s rejection of tradition and our acceptance of change and impermanence this book gives us a detailed and harrowing picture of how by choosing to support ever shorter product lives we may well be shortening the future of our way of life as well

Creo Parametric 7.0 Basics 2020-12-11

if you like to learn by doing this book shows you to design and document mechanical components one step at a time brief explanations followed by step by step instructions and a real world example make it a good starting point to learn creo parametric the author introduces the user interface and then starts solid modeling you will learn to draw sketches create 3d parts assemble them create drawings sheet metal parts and design complex shapes using surface modeling tools the examples in this book help you to discover the use of various tools and capabilities of creo parametric following are some of the skills you acquire after completing this book a good command over the user interface create and edit parametric sketches create basic and complex solid models create assemblies using bottom up and top down approaches create manufacturing drawings sheet metal design create and edit splines create complex and ergonomic surfaces creo parametric 7 0 basics is a self study guide you can learn various tools or work with examples in both ways you can develop a good foundation in solid modeling

FreeCAD 0.18 Basics Tutorial 2020-05-04

the freecad 0 18 basics tutorial book is an essential guide for engineers and designers without any experience in computer aided design this book teaches you the basics you need to know to start using freecad with ease

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understand step by step tutorials the author begins by getting you familiar with the freecad interface and its essential tools you will learn to model parts and create assemblies next you will learn some additional part modeling tools create drawings create sheet metal perform finite element analysis generate toolpaths for manufacturing

Interactive Atlas of Human Anatomy 2002-10

this third edition of the classic human anatomy atlas presents a total of 534 of netter s own accurate clear and precisely rendered illustrations along with 8 new netter style surface anatomy drawings by carlos a g machado

IEEE Recommended Practice for Calculating Short-Circuit Currents in Industrial and Commercial Power Systems 2006-01-01

this recommended practice provides short circuit current information including calculated short circuit current duties for the application in industrial plants and commercial buildings at all power system voltages of power system equipment that senses carries or interrupts short circuit currents

Electricity and Electronics Fundamentals, Second Edition 2020-12-18

an introductory text electricity and electronics fundamentals delineates key concepts in electricity using a simplified approach that enhances learning mathematical calculations are kept to the very minimum and concepts are demonstrated through application examples and illustrations the books span of topics includes vital information on direct current electronics alternating current electricity and semiconductor devices as well as electronic circuits

digital electronics computers and microprocessors electronic communications and electronic power control supplementary appendices provide a glossary and section on electrical safety along with an explanation of soldering techniques

Analysis and Simulation of Electrical and Computer Systems 2018-08-31

this book addresses selected topics in electrical engineering electronics and mechatronics that have posed serious challenges for both the scientific and engineering communities in recent years the topics covered range from mathematical models of electrical and electronic components and systems to simulation tools implemented for their analysis and further developments and from multidisciplinary optimization signal processing methods and numerical results to control and diagnostic techniques by bridging theory and practice in the modeling design and optimization of electrical electromechanical and electronic systems and by adopting a multidisciplinary perspective the book provides researchers and practitioners with timely and extensive information on the state of the art in the field and a source of new exciting ideas for further developments and collaborations the book presents selected results of the xiii scientific conference on selected issues of electrical engineering and electronics wzee 2016 held on may 04 08 2016 in rzeszów poland the conference was organized by the rzeszów division of polish association of theoretical and applied electrical engineering ptetis in cooperation with the faculty of electrical and computer engineering of the rzeszów university of technology

Electrical Installation Guide 2008

addresses the broad spectrum of engineering disciplines and introduces ai as a powerful engineering tool capable of providing effective and significant

assistance in that domain

IEEE Guide for AC Generator Protection 2007

this text helps you write your own maxscript functions and utilities to create custom tools and ui elements and automate repetitive tasks the companion cd rom contains media files that allow you to practice the techniques with real world examples

Artificial Intelligence in Engineering 1991-02-18

this guide provides a general explanation for leveraging the capabilities of the arcgis engine developer kit which is a platform for building stand alone gis applications with access to advanced gis objects using multiple application programming interfaces api s the book also includes several scenarios illustrating different types of applications that can be developed using the arcgis engine developer kit arcgis engine provides the framework for developers to connect to remote arcgis server objects or create focused gis applications that can be executed as stand alone applications or deployed inside of arcgis desktop products arcinfo arceditor and arcview the entire arcgis system is built and extended using software components called arcobjects which are at the core of all arcgis products

Asphalt Pavement Thickness Design 2001-01-01

this fascinating book explores the pros and cons of the top 25 green electricity technologies illuminating how each technology works and detailing the key hurdles each emerging energy strategy has to overcome before it becomes a viable option our existing electric utility industry and power supply and delivery systems are woefully outdated indeed the existing power grid we use today uses 100 year old technology this book lays out the possible blueprints for a greener future in a way that will engage middle school

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learners enabling students and teachers to explore the emerging energy technologies that could become the future of our electrical supply system in part 1 of green electricity 25 green technologies that will electrify your future the author describes the amazing patchwork of 1 300 power plants and over 5 million miles of wire that comprise our national grid and reveals the environmental damages it produces part 2 examines the 25 leading ecofriendly contenders to modernize and replace our current grid describing each proposed technology and how it works other relevant information is also provided such as a qualitative assessment of the pluses minuses and limitations of each system and an assessment of that technology s potential to contribute to our future electrical appetite

IEEE Standard Common Format for Transient Data Exchange (COMTRADE) for Power Systems 1991

lock down next generation services this book concisely identifies the types of attacks which are faced daily by 2 0 sites and the authors give solid practical advice on how to identify and mitigate these threats max kelly cissp cipp cfce senior director of security facebook protect your 2 0 architecture against the latest wave of cybercrime using expert tactics from internet security professionals hacking exposed 2 0 shows how hackers perform reconnaissance choose their entry point and attack 2 0 based services and reveals detailed countermeasures and defense techniques you ll learn how to avoid injection and buffer overflow attacks fix browser and plug in flaws and secure ajax flash and xml driven applications real world case studies illustrate social networking site weaknesses cross site attack methods migration vulnerabilities and ie7 shortcomings plug security holes in 2 0 implementations the proven hacking exposed way learn how hackers target and abuse vulnerable 2 0 applications browsers plug ins online databases user inputs and html forms prevent 2 0 based sql xpath xquery ldap and command injection attacks circumvent xxe directory traversal and buffer overflow

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exploits learn xss and cross site request forgery methods attackers use to bypass browser security controls fix vulnerabilities in outlook express and acrobat reader add ons use input validators and xml classes to reinforce asp and net security eliminate unintentional exposures in asp net ajax atlas direct remoting sajax and gwt applications mitigate activex security exposures using sitelock code signing and secure controls find and fix adobe flash vulnerabilities and dns rebinding attacks

IEEE Guide for Abnormal Frequency Protection for Power Generating Plants 2004

the essential resource for oracle dbas fully updated and expanded manage a flexible highly available oracle database with help from the expert information contained in this exclusive oracle press guide fully revised to cover every new feature and utility oracle database 11g dba handbook shows how to perform a new installation upgrade from previous versions configure hardware and software for maximum efficiency and employ bulletproof security you will learn to automate the backup and recovery process provide transparent failover capability audit and tune performance and distribute your enterprise databases with oracle net plan and deploy permanent temporary and bigfile tablespaces optimize disk allocation cpu usage i o throughput and sql queries develop powerful database management applications guard against human errors using oracle flashback and oracle automatic undo management diagnose and tune system performance using oracle automatic workload repository and sql tuning sets implement robust security using authentication authorization fine grained auditing and fine grained access control maintain high availability using oracle real application clusters and oracle active data guard respond more efficiently to failure scenarios by leveraging the oracle automatic diagnostic repository and the oracle repair advisor back up and restore tables tablespaces and databases with oracle recovery manager and oracle data pump export and import work with

networked databases data warehouses and vldbs put the latest oracle database 11g tools to work oracle total recall oracle flashback data archive and more

Autodesk 3ds Max 9 MAXScript Essentials 2007

this document was commissioned by the facility guidelines institute as the sole reference for acoustics in health care facilities it was written by the health care acoustics working group a permanent committee of the acoustics research council arc comprised of members of leading professional societies in acoustics noise control engineering acoustical consulting and related professions arc organized the health care working group in 2004 5 drawing its members from ten constituencies that range from medicine to law public policy architecture design and engineering in order to provide constructive guidance on sound and vibration based on research and best practices sound and vibration 2 0 has been adopted as the sole reference standard for acoustics in health care facilities by the 2010 fgi ashe guidelines for the design and construction of healthcare facilities used in 60 countries the us green building council s leed for healthcare used in 87 countries the green guide for health care v2 2 and the international code council s igcc 2011 sound and vibration are topics of increasing prominence in the design construction and operation of healthcare facilities a satisfactory acoustical environment in a healthcare facility is now viewed as an essential component of effective healthcare sensible acoustical and privacy planning in the early design stages of a healthcare facility project can be solved effectively and affordably with a few strokes of the designer s pencil the recommended minimum design requirements presented in this work are therefore intended to aid designers in achieving satisfactory acoustical and privacy environments in healthcare facilities this handbook includes comprehensive practical and measureable guidelines for all aspects of acoustics in the design construction and evaluation of all types of healthcare facilities including large general hospitals specialized patient care facilities and ambulatory patient care facilities

ArcGIS 9 2005

abstract this amendment specifies improved mechanisms as policies and medium access control enhancements to enable coexistence among license exempt systems based on ieee std 802.16 and to facilitate the coexistence of such systems with primary users keywords broadband wireless access bwa coexistence coexistence control channel coexistence mechanism coexistence protocol coexistence signaling contention based protocol license exempt ofdma radio standard was wireless access systems wirelessman wirelessman cx wirelessman ucp wireless metropolitan area network

Green Electricity 2011-03-30

generally accepted methods of protection for ac motors are provided this guide identifies and summarizes the functions necessary for adequate protection of motors based on type size and application this guide does not purport to detail the protective requirements if all motors in every situation

Hacking Exposed Web 2.0: Web 2.0 Security Secrets and Solutions 2008-01-07

this book presents comprehensive coverage of the means to integrate renewable power namely wind and solar power it looks at new approaches to meet the challenges such as increasing interconnection capacity among geographical areas hybridisation of different distributed energy resources and building up demand response capabilities

IEEE Guide for Power System Protective Relay

Applications of Audio Tones Over Voice Grade *Channels 2004*

methods for performing tests specified in ieee std c57 12 01 1989 and other referenced standards applicable to dry type distribution and power transformers are described this standard is intended for use as a basis for performance safety and the proper testing of dry type distribution and power transformers this standard applies to all dry type transformers except instrument transformers step voltage and induction voltage regulators arc furnace transformers rectifier transformers specialty transformers and mine transformers

Oracle Database 11g DBA Handbook *2007-12-27*

abstract description of design types tables of 50 hz and 60 hz ratings supplementary ratings construction and available accessories are provided methods for performing routine and design tests applicable to liquid immersed single and three phase step voltage regulators are described winding resistance measurements polarity tests insulation power factor and resistance tests ratio tests no load loss and excitation current measurements impedance and load loss measurements dielectric tests temperature tests routine and design impulse tests short circuit tests control tests calculated data and certified test data are covered keywords control design tests position indicator routine tests series transformer tap changer type a type b voltage regulator

IEEE Guide for Differential and Polarizing Relay Circuit Testing *2004*

the protection of shunt power capacitor and filter banks are covered
guidelines for reliable applications of protection methods igre 4 speed manual
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many shunt capacitor applications and designs are included the protection of pole mounted capacitor banks on distribution circuits and the application of capacitors connected directly to routing apparatus are not included

Sound & Vibration 2.0 *2012-10-02*

the synchronizing input and the data output for phasor measurements made by substation computer systems is discussed processes involved in computing phasors from sampled data data to phasor conversions and formats for timing inputs and phasor data output from a phasor measurement unit pmu are also addressed

IEEE Standard for Local and Metropolitan Area Networks 2010

IEEE Recommended Practice for Protection and Coordination of Industrial and Commercial Power Systems 1975

IEEE Guide for AC Motor Protection 2000

Large Scale Grid Integration of Renewable Energy Sources 2017-03-27

IEEE Standard Test Code for Dry-type Distribution
and Power Transformers **1996**

IEEE Standard Requirements, Terminology, and
Test Code for Step-voltage Regulators **2009**

IEEE Guide for Improving the Lightning
Performance of Electric Power Overhead
Distribution Lines **2011**

**IEEE Guide for the Protection of Shunt Capacitor
Banks 2000**

***IEEE Guide for the Interpretation of Gases
Generated in Oil-immersed Transformers 1992***

**IEEE Standard for Synchrophasors for Power
Systems 1996**

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