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IEC 61850 Principles and Applications to Electric Power SystemsAdvanced Topics in Mechanics of Materials, Structures and ConstructionApplications of Power ElectronicsAutonomous Control of Unmanned Aerial VehiclesIntelligent Electrical Protection in Traditional Networks and Smart GridsCyberphysical Smart Cities InfrastructuresGas Insulated SubstationsSpringer Handbook of Internet of ThingsWind Turbine Generator SystemsProceedings of the ... ASME Design Engineering Technical Conferences25th Computers and Information in Engineering ConferenceSafety and Health at WorkOlder, Richer, FitterTitle 10 Energy Parts 200 to 499 (Revised as of January 1, 2014)JIS ⬜⬜ ⬜Semiconductor Manufacturing Handbook 2E (PB)Studi e fontiSQL: A Beginner's Guide, Fourth EditionSQL: A Beginner's Guide, Third EditionVisual C++ .NET Peter Bishop Erasmo Carrera Frede Blaabjerg Victor Becerra Salman Rezaei M. Hadi Amini Hermann J. Koch Sébastien Ziegler David Metz Office of The Federal Register, Enhanced by IntraWEB, LLC Hwaiyu Geng Andy Oppel Andy Oppel Harvey M. Deitel

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this book offers a compact guide to iec61850 systems including wide area implementation as it has been applied to real substations worldwide it utilises technical brochures and

papers based on existing practice of iec61850 systems that give stakeholders from different disciplines an understanding of systems in use their features how they are applied and approach for implementation the book offers a holistic practical view considering all relevant interfaces and possibilities it includes the different applications practical implementation considerations and choices made for iec61850 pacs protection automation control system designs power system engineers planners technicians and researchers will find the book useful for exploring developing and delivering these systems this second edition of the book includes publication quality corrections the technical content remains unaltered

the book presents 81 papers referring to the properties and applications of technologically important materials topics covered include material characterization environmental impact probabilistic assessment failure analysis vibration analysis ai based predictions conceptual models thermo mechanical properties numerical models design and simulation industrial performance and failure analysis keywords laminated sandwich shell polymer nanocomposite cellular glass foam porous spherical shells cracks between dissimilar materials soil stabilization dynamic strain aging composite plates recycled concrete aggregates preparation characterization of nanoparticles auxetic materials biomechanical model cellular lightweight concrete thermoplastic materials powder metal gears fibre reinforced concrete adhesively bonded composites solar pv power kirigami folded structures steel fibres solar panels electric discharge machining energy harvesting energy conversion glass epoxy pipe manufacturing strategy additive manufacturing fibre reinforced aluminum telescopic paraboloidal solar concentrator energy storage machining waste fibers numerical simulation foam concrete heat exchangers nanofluids spherical cavity explosion cross ply structure reinforced concrete walls artificial intelligence l shaped metamaterials sand bentonite liners layered composite arches stitched sandwich structures semilinear hyperelastic solids filament fabrication polyethylene bottles spherical shells steel boiler tub mortars 3d printing electromagnetic forming

power electronics technology is still an emerging technology and it has found its way into many applications from renewable energy generation i e wind power and solar power to electrical vehicles evs biomedical devices and small appliances such as laptop chargers in the near future electrical energy will be provided and handled by power electronics and consumed through power electronics this not only will intensify the role of power electronics technology in power conversion processes but also implies that power systems are

undergoing a paradigm shift from centralized distribution to distributed generation today more than 1000 gw of renewable energy generation sources photovoltaic pv and wind have been installed all of which are handled by power electronics technology the main aim of this book is to highlight and address recent breakthroughs in the range of emerging applications in power electronics and in harmonic and electromagnetic interference emi issues at device and system levels as discussed in robust and reliable power electronics technologies including fault prognosis and diagnosis technique stability of grid connected converters and smart control of power electronics in devices microgrids and at system levels

unmanned aerial vehicles uavs are being increasingly used in different applications in both military and civilian domains these applications include surveillance reconnaissance remote sensing target acquisition border patrol infrastructure monitoring aerial imaging industrial inspection and emergency medical aid vehicles that can be considered autonomous must be able to make decisions and react to events without direct intervention by humans although some uavs are able to perform increasingly complex autonomous manoeuvres most uavs are not fully autonomous instead they are mostly operated remotely by humans to make uavs fully autonomous many technological and algorithmic developments are still required for instance uavs will need to improve their sensing of obstacles and subsequent avoidance this becomes particularly important as autonomous uavs start to operate in civilian airspaces that are occupied by other aircraft the aim of this volume is to bring together the work of leading researchers and practitioners in the field of unmanned aerial vehicles with a common interest in their autonomy the contributions that are part of this volume present key challenges associated with the autonomous control of unmanned aerial vehicles and propose solution methodologies to address such challenges analyse the proposed methodologies and evaluate their performance

the main objective of this book is to enlighten readers on the automatic protection control and monitoring of power systems the focus is on the development of intelligent protective algorithms to combat ferroresonance and sub synchronous resonance ssr in both traditional networks and smart grids initially the book covers the theoretical aspects of ferroresonance ssr and protective relays it then discusses the occurrence of ferroresonance and ssr in the grid and the impact of these phenomena on the operation of electrical components and a variety of protective relays intelligent algorithms are designed and tested for various types of protective relays the book also introduces a power automation system known as the

universal protection control and power energy management centre upcpemc this scada based centre includes hardware components and new software for simulation analysis protection control and power system component design additionally it includes power and energy management programs that are suitable for use in both traditional networks and smart grids

learn to deploy novel algorithms to improve and secure smart city infrastructure in cyberphysical smart cities infrastructures optimal operation and intelligent decision making accomplished researchers drs m hadi amini and miadreza shafie khah deliver a crucial exploration of new directions in the science and engineering of deploying novel and efficient computing algorithms to enhance the efficient operation of the networks and communication systems underlying smart city infrastructure the book covers special issues on the deployment of these algorithms with an eye to helping readers improve the operation of smart cities the editors present concise and accessible material from a collection of internationally renowned authors in areas as diverse as computer science electrical engineering operation research civil engineering and the social sciences they also include discussions of the use of artificial intelligence to secure the operations of cyberphysical smart city infrastructure and provide several examples of the applications of novel theoretical algorithms readers will also enjoy thorough introductions to fundamental algorithms for computing and learning large scale optimizations control theory for large scale systems explorations of machine learning and intelligent decision making in cyberphysical smart cities including smart energy systems and intelligent transportation networks in depth treatments of intelligent decision making in cyberphysical smart city infrastructure and optimization in networked smart cities perfect for senior undergraduate and graduate students of electrical and computer engineering computer science civil engineering telecommunications information technology and business cyberphysical smart cities infrastructures is an indispensable reference for anyone seeking to solve real world problems in smart cities

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this handbook is an authoritative comprehensive reference on internet of things written for practitioners researchers and students around the world this book provides a definitive single point of reference material for all those interested to find out information about the basic technologies and approaches that are used to design and deploy iot applications across a vast variety of different application fields spanning from smart buildings smart

cities smart factories smart farming building automation connected vehicles and machine to machine communication the book is divided into ten parts each edited by top experts in the field the parts include iot basics iot hardware and components architecture and reference models iot networks standards overview iot security and privacy from data to knowledge and intelligence application domains testbeds and deployment and end user engagement the contributors are leading authorities in the fields of engineering and represent academia industry and international government and regulatory agencies

as britain s population continues to age so the consumer market will also have to evolve in a similar manner this title looks at aspects such as demographics mature marketing and addressing the special needs of ageing in order to provide a clear definition of market requirements in coming years

the code of federal regulations title 10 contains the codified federal laws and regulations that are in effect as of the date of the publication pertaining to energy including nuclear energy testing and waste oil natural gas wind power and hydropower climate change energy conservation alternative fuels and energy site safety and security includes energy sales regulations power and transmission rates

thoroughly revised state of the art semiconductor design manufacturing and operations information written by 70 international experts and reviewed by a seasoned technical advisory board this fully updated resource clearly explains the cutting edge processes used in the design and fabrication of ic chips mems sensors and other electronic devices semiconductor manufacturing handbook second edition covers the emerging technologies that enable the internet of things the industrial internet of things data analytics artificial intelligence augmented reality and and smart manufacturing you will get complete details on semiconductor fundamentals front and back end processes nanotechnology photovoltaics gases and chemicals fab yield and operations and facilities nanotechnology and microsystems manufacturing finfet and nanoscale silicide formation physical design for high performance low power 3d circuits epitaxi anneals rtp and oxidation microlithography etching and ion implantations physical chemical electrochemical and atomic layer vapor deposition chemical mechanical planarization atomic force metrology packaging bonding and interconnects flexible hybrid electronics flat panel flexible display electronics and photovoltaics gas distribution systems ultrapure water and filtration process chemicals handling and abatement chemical and slurry handling systems yield management cim and factory automation manufacturing execution systems advanced process control airborne

molecular contamination esd controls in clean room environments vacuum systems and rf plasma systems ic manufacturing parts cleaning technology vibration and noise design and much more

this fully revised self paced learning tool lays out all the necessary steps to quickly and easily start writing sql programs thoroughly updated to reflect the most recent ansi iso standard sql a beginner s guide fourth edition will get you up and running with sql programming right away clear tutorials annotated code and proven instructional tools guide you to easily performing queries and modifications building databases creating and reviewing embedded statements troubleshooting system and data related problems and much more you will learn how to retrieve insert update and delete database data and perform management and administrative functions the book also covers new features including sql xml and the long awaited temporal support code examples are provided throughout along with notes on using them with the latest rdbms software versions such as mysql 5 7 sql server 2014 and oracle database 12c platform neutral coverage all skills can be applied to any database product and any sql version features hands on exercises and self tests that reinforce basic knowledge ask the expert sections throughout are filled with bonus information and useful tips

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