

Electronic Principles

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with 5g telecommunications networks have entered a new phase 5g mobile networks use unique concepts and technologies to deliver current and future applications across a wide spectrum from high bit rate smartphones to high availability car to x and mass iot applications this book on 5g technology starts with the evolution of mobile networks to 5g it then addresses basic concepts and technologies such as ngn ims virtualization with nfv and mec sdn and service function chaining the 5g environment is comprehensively presented starting with use cases and usage scenarios and moving on to concrete requirements as well as the standardization at itu and especially 3gpp including regulation in this context the 5g system design the 5g access networks with their high performance transmission technology and the core network with the innovative concepts of service based architecture and network slicing play a significant role a 5g system is presented here in an integrated view rounded off by an overview of all relevant it security aspects the overall view is concluded by looking at the environmental influences of electromagnetic radiation and the energy and raw material resources requirements furthermore the future development of 5g up to 6g is outlined the book s main objective is to provide people interested in 5g technology and application scenarios with a well founded knowledge for an introduction to 5g and encourage further discussion of this topic the target audience is generally technically interested persons mostly employees of public and private network operators this book should be of particular interest especially within the it departments of potential 5g user companies and of course among computer science and electrical engineering students

the book presents fundamentals of communication electronic circuits including structure principle analyzing methodology design and design software radio frequency amplifier sinusoidal oscillator amplitude modulation and demodulation angular modulation and demodulation are described in detail the book serves for learning and teaching but can also help researchers and professionals as reference

the book systematically introduces theories of frequently used modern signal processing methods and technologies and focuses discussions on stochastic signal parameter estimation modern spectral estimation adaptive filter high order signal analysis and non linear transformation in time domain signal analysis with abundant exercises the book is an essential reference for graduate students in electrical engineering and information science

this volume brings together advanced concepts from leading academic scientists educationalists administrative policymakers and researchers on their experiences and research results on many aspects of digital educational methods and teaching practices it provides an interdisciplinary compilation of recent innovations trends and concerns as well as the challenges encountered and solutions adopted in the fields of digital pedagogies and educational design it is becoming increasingly important to develop adaptive robust scalable and digital teaching learning mechanisms in academics this volume addresses this need by discussing the advancements in flipped and blended learning student and teacher centric learning in technical institutes critical digital pedagogies and the complex analyses and collaborations with organizations outside the academy this book also deals with protocols for educational and administrative policies iot based teaching learning methodology teaching education and the process of assessment testing and evaluation integration of technology with digital education and different case study based approaches in digital teaching learning methodology

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this handbook explores the main themes and topics of the emerging field of global administrative law with contributions by leading scholars and experts from universities and organizations around the world the variety of the subjects addressed and the internationality of the handbook s perspectives make for a truly global and multi dimensional view of the field the book first examines the growth of global administrations their interactions within global networks the emergence of a global

administrative process and the development of the rule of law and democratic principles at a global level it goes on to illustrate the relationship between global law and other legal orders with particular attention to regional systems and national orders the final section devoted to the emergence of a global legal culture brings the book full circle by identifying the growth of a global epistemic community the research handbook on global administrative law provides a contemporary overview of the nascent field in detailed yet accessible terms making it a valuable book for university courses academics and scholars with an interest in international law administrative law public law and comparative law will find value in this book as well as legal professionals involved with international and supranational organizations and national civil servants dealing with supranational organizations

assistive technology at is the term used to describe products or technology based services which support those with disabilities or other limitations to their daily activities enabling them to enjoy a better quality of life this book presents the proceedings of the 13th european conference on the advancement of assistive technology aaate 2015 held in budapest hungary in september 2015 this biennial conference has established itself as a leading forum in the transdisciplinary area of assistive technology providing a unique platform for the gathering of experts from around the world to review progress and challenges in the interdisciplinary fields which contribute to at such as research development manufacturing supply provision and policy the theme of the 2015 conference is attracting new areas and building bridges and this book contains 138 reviewed papers and 28 poster presentations delivered at the conference covering at themes as diverse as aging blindness mobility assisted living and accessibility for people with dementia and cognitive impairment offering a current overview of many aspects of at this book will be of interest to all those from researchers and manufacturers to healthcare professionals and end users whose work or daily life involves the relationship between technology and disability

over one hundred presentations from the 37th annual charleston library conference held november 6 10 2017 are included in this annual proceedings volume major themes of the meeting included data visualization analysis and assessment of collections and library users demand driven acquisition the future of print collections and open access publishing while the charleston meeting remains a core one for acquisitions librarians in dialog with publishers and vendors the breadth of coverage of this volume reflects the fact that this conference continues to be one of the major venues for leaders in the publishing and library communities to shape strategy and prepare for the future almost 2 000 delegates attended the 2017 meeting ranging from the staff of small public library systems to the ceos of major corporations this fully indexed copyedited volume provides a rich source for the latest evidence based research and lessons from practice in a range of information science fields the contributors are leaders in the library publishing and vendor communities

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quantum computing systems are powerful for allowing a client to perform any quantum computations from a remote quantum server while concealing the structure and content of the computation fall under the category of blind quantum computing bqc in bqc the client delegates the quantum processing to one or more powerful quantum servers while retaining privacy over the input computation and output this makes it suitable for secure quantum cloud computing this feature is powerful to

ensure that even untrusted servers cannot learn the details of the user's computation with quantum computing there is a fast growing need to transition from general purpose quantum systems to customized architectures tailored to specific application requirements this transition is critical while considering sustainability goals and financial limitations with this advanced computing architecture a custom system can optimize energy use hardware complexity and resource allocation to better serve individual user needs while staying within budgetary boundaries

this book explores various e services related to health learning culture media and the news and the influences the and related technologies have had and continue to have in each of these areas both on service providers and service users it provides insights into the main technological and human issues regarding healthcare aging population recent challenges in the educational environment the impact of digital technologies on culture and heritage cultural diversity freedom of expression intellectual property fake news and last but not least public opinion manipulation and ethical issues its main aim is to bridge the gap between technological solutions their successful implementation and the fruitful utilization of the main set of e services mostly delivered by private or public companies today various parameters actively influence e services success or failure cultural aspects organisational and privacy issues bureaucracy and workflows infrastructure and technology in general user habits literacy capacity or merely interaction design this includes having a significant population of citizens who are willing and able to adopt and use online services as well as developing the managerial and technical capability to implement applications that meet citizens needs this book helps readers understand the mutual dependencies involved further a selection of success stories and failures duly commented on enables readers to identify the right approach to innovation in areas that offer the opportunity to reach a wide audience with minimal effort with its balanced humanistic and technological approach the book mainly targets public authorities decision makers stakeholders solution developers and graduate students

this fun concise full color book introduces the fundamentals of digital illustration and covers how to develop and optimize these types of scalable vector graphics svg using inkscape 0.91 or later it also covers concepts central to digital painting using the corel painter 2016 professional digital painting and illustration paid software package which also has a free trial version and a discount for purchasers of this book the book builds upon the foundational concepts of vector graphics and the svg format and gets more advanced as chapters progress covering what vector new media formats and svg commands and svg filters are best for use with android studio java 8 javafx ios kindle fire and html5 the book covers key factors regarding the data footprint optimization work process and why data footprint optimization is important and covers programming languages used for digital illustration and publishing platforms which support digital illustration and how to assimilate these into your digital illustration and digital painting content production pipelines and workflow you will learn the terminology of vector imaging and digital illustration what comprises a digital illustration 2d modeling and rendering pipeline concepts and principles behind digital illustration content production how to install and utilize 64 bit inkscape 0.91 for windows mac osx and linux concepts behind spline curves strokes fills patterns and rendering digital illustration data formats and data footprint optimization audience primary artists illustrators website developers flash developers user interface designers digital signage content developers e learning content creators ebook authors secondary android developers ios developers multimedia producers rich internet application ria programmers game designers teachers educators div

this book serves as a comprehensive guide for legal practitioners providing a primer on digital forensic evidence and essential technological concepts through real world examples this book offers a systematic overview of methodologies and best practices in collecting preserving and analyzing digital evidence grounded in legal precedent the following chapters explain how digital evidence fits within existing legal frameworks addressing questions of admissibility authenticity and ethical considerations the aim of this book is to bridge the digital knowledge gap that often hinders the legal process empowering readers with the tools needed for effective

engagement in tech related legal matters ultimately the book equips judges lawyers investigators and jurists with the knowledge and skills to navigate the digital dimensions of legal cases proficiently

the updated edition of the third of three vollumes on medical physics presents modern physical methods for medical therapy with a focus on tumor treatment it provides background information on radiation biology radiation response of tissues and linear energy transfer through radiation therapies with external radiation sources x rays protons neutrons as well as internal radiation sources brachytherapy are discussed in detail other chapters deal with the use of lasers and nanoparticles in modern medicine this volume closes with a short chapter on medical statistics new highlighted boxes emphasize specifi c topics math boxes explain more advanced mathematical issues each chapter concludes with a summary of the key concepts questions exercises and a self assessment of the acquired competence the appendix provides answers to questions and solutions to exercises

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this book reports on research findings and practical lessons featuring advances in the areas of digital and interaction design graphic design and branding design education society and communication in design practice and related ones gathering the proceedings of the 5th international conference on digital design and communication digicom 2021 held on november 4 6 2021 in barcelos portugal and continuing the tradition of the previous book it describes new design strategies and solutions to foster digital communication within and between the society institutions and brands by highlighting innovative ideas and reporting on multidisciplinary projects it offers a source of inspiration for designers of all kinds including graphic and web designers ui ux and social media designers and to researchers advertisers artists and brand and corporate communication managers alike

the updated edition of the second of three volumes on medical physics presents modern physical methods for medical diagnostics it provides a solid background on imaging techniques that use non ionizing probes ultrasound endoscopy including cle and oct mri and imaging techniques that use ionizing radiation x ray radiography ct spect pet radiation sources interactions of radiation with matter and radiation protection for x rays rays protons and neutrons are presented some of these topics are also relevant to the therapeutic applications presented in volume 3 new highlighted boxes emphasize specifi c topics math boxes explain more advanced mathematical issues each chapter concludes with a summary of the key concepts questions a self assessment of the acquired competence and exercises the appendix provides answers to questions and solutions to exercises

at a time of rapid change this is an examination of the safe and ethical use of ai which complies with forthcoming regulations in the uk europe and the us

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