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This book constitutes the proceedings of the Workshops held in conjunction with SAFECOMP 2020, 39th International Conference on Computer Safety, Reliability and Security, Lisbon, Portugal, September 2020. The 26 regular papers included in this volume were carefully reviewed and selected from 45 submissions; the book also contains one invited paper. The workshops included in this volume are: DECSoS 2020: 15th Workshop on Dependable Smart Embedded and Cyber-Physical Systems and Systems-of-Systems. DepDevOps 2020: First International Workshop on Dependable Development-Operation Continuum Methods for Dependable Cyber-Physical Systems. USDAI 2020: First International Workshop on Underpinnings for Safe Distributed AI. WAISE 2020: Third International Workshop on Artificial Intelligence Safety Engineering. The workshops were held virtually due to the COVID-19 pandemic.

Health Psychology is essential reading for all students and researchers of health psychology. Organized into four sections, the 6th edition is structured with a clear emphasis on theory and evidence throughout. This textbook maintains its popular and balanced approach between the biomedical and psychosocial model, while strengthening its focus on critical thinking and behaviour change. Key updates include: • Learning objectives: Each chapter opens with a set of learning objectives, which clearly outlines the knowledge, understanding and skills you will acquire from each chapter. • Case studies: Each chapter includes a case study to illustrate how the key theories and ideas are relevant to everyday life. • Through the Eyes of Health Psychology: A brand new feature to show how a health psychologist might analyse each case study using the theories and concepts presented throughout the book. • Health promotion: A whole chapter devoted to the theories and evidence relevant to behaviour change and includes a new section on integrated approaches and the drive to develop a new science of behaviour change. • Thinking critically about: The process of thinking critically is introduced in the first chapter which describes how to think critically about theory, methods, measurement and research design. Each chapter has its own 'Thinking critically about ...' section at the end to highlight problems with specific theories and research areas. This section includes critical thinking questions and a 'Some problems with...' section to form the basis of class discussions and enable students to be more critical in their thinking and writing.

"I'd apologize for kissing you, but I'm not all that sorry." Dancer Melanie Brooks had escaped small-town Oklahoma, giving up the country for Broadway's bright lights. Yet after her mother's funeral called her back, her own health issues forced her to stay. Now her tenant, too-hot-for-his-own-good Adam Benson, is giving her a reason to dance again. But has a killer set his sights on her, too? Adam knows a little something about fresh starts. As for his beautiful neighbor, he doesn't see a wheelchair—he sees a woman who understands. But as the heat grows between them, he can't avoid the feeling that more than her big-city past haunts her—and that danger has been lurking, waiting to strike….

This book presents a collection of high-quality, peer-reviewed research papers from the 6th International Conference on Information System Design and Intelligent Applications (INDIA 2019), held at Lendi Institute of Engineering & Technology, India, from 1 to 2 November 2019. It covers a wide range of topics in computer science and information technology, including data mining and data warehousing, high-performance computing, parallel and distributed computing, computational intelligence, soft computing, big data, cloud computing, grid computing and cognitive computing.

Study & Master Accounting was developed with the help of practising teachers, and covers all the requirements of the National Curriculum Statement for accounting.

Magic, cunning, and one very special cat join forces in this hilarious, extraordinary tale by the author of the Dairy Queen trilogy and Princess Ben. Princess Wisdom, known as Dizzy, longs for a life of adventure beyond the staid old kingdom of Montagne. Tips, a soldier, longs to keep his true identity a secret. Fortitude, an orphaned maid, longs only for Tips. These three souls might possibly attain their dreams while preserving their empire from ruin — if only they can bear one another's company long enough to come up with a plan.

This publication provides guidelines on how to plan a radiotherapy facility in terms of the strategic master planning process including the legal, technical and infrastructure requirements. It outlines a risk assessment methodology, a typical project work plan and describes the professional expertise required for the implementation of such a project. Generic templates for a block design are suggested, which include possibilities for future expansion. These templates can be overlaid onto the designated site such that the most efficient workflow between the main functional areas can be ensured. A sample checklist is attached to act as a guideline for project management and to indicate the critical stages in the process where technical expert assistance may be needed. The publication is aimed at professionals and administrators involved in infrastructure development, planning and facility management, as well as engineers, building contractors and radiotherapy professionals.

This book constitutes the refereed proceedings of the 4th International Conference on Digital Economy, ICDEc 2019, held in Beirut, Lebanon, in April 2019. The conference was founded in 2016 to discuss innovative research and projects related to the support role of Information System Technologies in the digital transformation process, business innovation and e-commerce. The 31 papers presented in this volume were carefully reviewed and selected from 89 submissions. The theme of ICDEc 2019 was "Digital Economy: Emerging Technologies and Business Innovation". The papers were organized in topical sections named: digital transformation; e-finance; social media communication; intelligent systems; e-commerce and business analytics; e-learning and cloud education; e-commerce and digital economy; data science; digital marketing; and digital business model.

This book constitutes the refereed proceedings of the 17th International Conference on Applied Cryptography and Network Security, ACNS 2019, held in Bogota, Colombia in June 2019. The 29 revised full papers presented were carefully reviewed and selected from 111 submissions. The papers were organized in topical sections named: integrity and cryptanalysis; digital signature and MAC; software and systems security; blockchain and cryptocurrency; post quantum cryptography; public key and commitment; theory of cryptographic implementations; and privacy preserving techniques.

This volume constitutes the proceedings of the 11th International Conference on Social Informatics, SocInfo 2019, held in Doha, Qatar, in November 2019. The 17 full and 5 short papers presented in these proceedings were carefully reviewed and selected from 86 submissions. The papers presented in this volume cover a broad range of topics, ranging from the study of socio-technical systems, to computer science methods to analyze complex social processes, as well as social concepts in the design of information systems.

This manual prescribes guidance for designing hydraulic steel structures (HSS) by load and resistance factor design (LRFD) and guidance for fracture control. Allowable stress design (ASD) guidance is provided as an alternative design procedure or for those structure types where LRFD criteria have yet to be developed. Typical HSS are lock gates, tainter gates, tainter valves, bulkheads and stoplogs, vertical lift gates, components of hydroelectric and pumping plants, and miscellaneous structures such as lock wall accessories, local flood protection gates, and outlet works gates. HSS may be subject to submergence, wave action, hydraulic hammer, cavitation, impact, corrosion, and severe climatic conditions.

Christian Raack received his diploma (master's) degree in mathematics from the Technical University Berlin in 2006 and later his Ph.D. in 2012. As a full-time researcher at the Zuse Institute Berlin he has been involved in a large variety of projects mainly stemming from optimization problems in the telecommunications sector. In this thesis, the author develops methods in mathematical optimization to dimension networks at minimal cost. The considered planning problems typically arise in the strategic design of telecommunication or public transport networks and also in logistics. Given hardware and cost models, the challenge is to provide network topologies and efficient capacity plans that meet the demand for network traffic (data, passengers, freight). The author tries to incorporate crucial aspects of practical interest, such as the discrete structure of available capacities as well as the uncertainty of demand forecasts. One of the essential aspects studied in this work is the use of cutting planes to enhance solution approaches based on multi-commodity flow formulations. Providing theoretical and computational evidence for the efficacy of inequalities based on network cuts, existing theory and algorithmic work is extended in different directions.

"An excellent book for those who are interested in learning thecurrent status of research and development . . . [and] who want toget a comprehensive overview of the currentstate-of-the-art." —E-Streams This book provides up-to-date information on research anddevelopment in the rapidly growing area of networks based on themultihop ad hoc networking paradigm. It reviews all classes ofnetworks that have successfully adopted this paradigm, pointing outhow they penetrated the mass market and sparked breakthroughresearch. Covering both physical issues and applications, Mobile Ad HocNetworking: Cutting Edge Directions offers useful tools forprofessionals and researchers in diverse areas wishing to learn about the latest trends in sensor, actuator, and robotnetworking, mesh networks, delay tolerant and opportunisticnetworking, and vehicular networks. Chapter coverage includes: Multihop ad hoc networking Enabling technologies and standards for mobile multihopwireless networking Resource optimization in multiradio multichannel wireless meshnetworks QoS in mesh networks Routing and data dissemination in opportunistic networks Task farming in crowd computing Mobility models, topology, and simulations in VANET MAC protocols for VANET Wireless sensor networks with energy harvesting nodes Robot-assisted wireless sensor networks: recent applicationsand future challenges Advances in underwater acoustic networking Security in wireless ad hoc networks Mobile Ad Hoc Networking will appeal to researchers,developers, and students interested in computer science, electricalengineering, and telecommunications.

Since the beginning of mankind on Earth, if the "busyness" process was successful, then some form of benefit sustained it. The fundamentals are obvious: get the right inputs (materials, labor, money, and ideas); transform them into highly demanded, quality outputs; and make it available in time to the end consumer. Illustrating how operations relate to the rest of the organization, Production and Operations Management Systems provides an understanding of the production and operations management (P/OM) functions as well as the processes of goods and service producers. The modular character of the text permits many different journeys through the materials. If you like to start with supply chain management (Chapter 9) and then move on to inventory management (Chapter 5) and then quality management (Chapter 8), you can do so in that order. However, if your focus is product line stability and quick response time to competition, you may prefer to begin with project management (Chapter 7) to reflect the continuous project mode required for fast redesign rapid response. Slides, lectures, Excel worksheets, and solutions to short and extended problem sets are available on the Downloads / Updates tabs. The project management component of P/OM is no longer an auxiliary aspect of the field. The entire system has to be viewed and understood. The book helps students develop a sense of managerial competence in making decisions in the design, planning, operation, and control of manufacturing, production, and operations systems through examples and case studies. The text uses analytical techniques when necessary to develop critical thinking and to sharpen decision-making skills. It makes production and operations management (P/OM) interesting, even exciting, to those who are embarking on a career that involves business of any kind.

As the world is currently in the midst of financial and economic crises, this collection of expert contributions focuses on strategy formation and implementation at various organizational levels to address the challenges ahead. The latest economic turmoil and its ongoing impact on business performance are compelling top managers to develop effective business strategies and redefine the boundaries of their operational and strategic activities. On one hand, tremendous challenges in the competitive business environment have become a source of global threats for many small entrepreneurs. On the other, investors faced with today's volatile economic conditions demand more gains on their capital investments to counter-balance the growing risk of global threats. This book explores the question as to whether it is possible to efficiently and effectively address these threats and obstacles. Are managers capable of planning and implementing strategic actions? What should the major managerial strategy be in order to overcome fluctuations in a market-oriented society? The strategies and practices recommended here are aimed to design continuous development competencies and contribute to the stability, recovery and sustainability of global business operations under volatile economic conditions. This refreshingly novel book seeks to establish managerial strategies and practices for effectively responding to challenges in the competitive business environment, as global volatility and fluctuations continue to worsen.

As Daniel Hardcastle careers towards thirty, he looks back on what has really made him happy in life: the friends, the romances... the video games. Told through encounters with the most remarkable – and the most mind-boggling – games of the last thirty-odd years, Fuck Yeah, Video Games is also a love letter to the greatest hobby in the world. From God of War to Tomb Raider, Pokémon to The Sims, Daniel relives each game with countless in-jokes, obscure references and his signature wit, as well as intricate, original illustrations by Rebecca Maughan. Alongside this march of merriment are chapters dedicated to the hardware behind the games: a veritable history of Sony, Nintendo, Sega and Atari consoles. Joyous, absurd, personal and at times sweary, Daniel's memoir is a celebration of the sheer brilliance of video games.

Covers the Cambridge IGCSE syllabus (0455) and the Cambridge O Level syllabus (2281), first examination from 2020. This series helps students understand economic theory, terminology and principles. By applying tools of economic analysis, undertaking calculations and writing longer responses, students learn how to look at the world like an economist. The workbook matches the Cambridge IGCSE and O Level Economics syllabuses and provides students with additional concepts to strengthen their understanding, as well as the quality of their answers. The answers to the workbook questions are in the teacher's resource.

This groundbreaking fashion branding and management text brings an analytical business dimension to the marketing and corporate techniques of the luxury fashion goods industry. It will make engaging reading for anyone who wishes to learn about the captivating business of turning functional products into objects of desire.

A comparative introduction to major global wireless standards, technologies and their applications From GSM to LTE-Advanced Pro and 5G: An Introduction to Mobile Networks and Mobile Broadband, 3rd Edition provides technical descriptions of the various wireless technologies currently in use. It explains the rationales behind their differing mechanisms and implementations while exploring the advantages and limitations of each technology. This edition has been fully updated and substantially expanded to reflect the significant evolution in mobile network technology occurring over the past several years. The

chapter on LTE has been extensively enhanced with new coverage of current implementations of LTE carrier aggregation, mobility management, cell reselection and handover procedures, as well as the latest developments in 5G radio and core networks in 3GPP. It now features additional information on the TD-LTE air interface, IPv6 in mobile networks, Network Function Virtualization (NFV) and Narrowband Internet of Things (NB-IOT). Voice-over-LTE (VoLTE) is now treated extensively in a separate chapter featuring coverage of the VoLTE call establishment process, dedicated bearer setup, header compression, speech codec and bandwidth negotiation, supplementary service configuration and VoLTE emergency calls. In addition, extensive coverage of Voice-over-Wifi and mission critical communication for public safety organizations over LTE has been added. The WLAN chapter now provides coverage of WPA2-Professional with certificates for authentication in large deployments, such as the global Eduroam network and the new WLAN 60 GHz air interface. Bluetooth evolution has been addressed by including a detailed description of Bluetooth Low Energy (BLE) in the chapter devoted to Bluetooth. Describes the different systems based on the standards, their practical implementation and design assumptions, and the performance and capacity of each system in practice is analyzed and explained Questions at the end of each chapter and answers on the accompanying website make this book ideal for self-study or as course material.

Advances in technology have produced a range of on-body sensors and smartwatches that can be used to monitor a wearer's health with the objective to keep the user healthy. However, the real potential of such devices not only lies in monitoring but also in interactive communication with expert-system-based cloud services to offer personalized and real-time healthcare advice that will enable the user to manage their health and, over time, to reduce expensive hospital admissions. To meet this goal, the research challenges for the next generation of wearable healthcare devices include the need to offer a wide range of sensing, computing, communication, and human–computer interaction methods, all within a tiny device with limited resources and electrical power. This Special Issue presents a collection of six papers on a wide range of research developments that highlight the specific challenges in creating the next generation of low-power wearable healthcare sensors.

Provides research on security issues in various wireless communications, recent advances in wireless security, the wireless security model, and future directions in wireless security.

This book presents theories and case studies for corporations in developed nations, including Japan, for designing strategies to maximize opportunities and minimize threats in business expansion into developing nations. The case studies featured here focus on Asia, including China and India, and use examples of Japanese manufacturers. Five case studies are provided, including Hitachi Construction Machinery and Shiseido in China and Maruti Suzuki in India. These cases facilitate the reader's understanding of the business environments in emerging economies. This volume is especially recommended for business people responsible for international business development, particularly in China and India. In addition, the book serves as a useful resource for students in graduate-level courses in international management.

Whether you are designing for systems based on 2G, 3G, or advanced MIMO technology, you can find the solution you need with this comprehensive reference on applying smart antennas in wireless and mobile communications. The book provides you with a simple yet powerful design methodology that enables you to select the smart antenna approach most suitable for a particular application. Moreover, it offers guidance in designing the appropriate uplink and downlink beamforming algorithms.

The project identified good Nordic management practices by analysing Nordic research on management, working conditions, and productivity. The project identified 2760 publications combining these topics and analysed in detail 38 core publications combining all three topics. The main findings were: 1. Nordic research that combine all three topics is limited in extend but broad in content and therefore fragmented 2. Values related to cooperation and participation permeated the publications, which sets them apart from EU and US publications. 3. The core publications identified positive relations between management practices, working conditions and workplace performance 4. Positive management practices are characterised by dialogue and cooperation between managers and subordinates. The research was conducted in 2012-2014 at Aalborg University, SINTEF, VTT, and Karlstad University.

This practical handbook and reference provides a complete understanding of the telecommunications field supported by descriptions and case examples throughout Taking a practical approach, The Telecommunications Handbook examines the principles and details of all of the major and modern telecommunications systems currently available to industry and to end-users. It gives essential information about usage, architectures, functioning, planning, construction, measurements and optimisation. The structure of the book is modular, giving both overall descriptions of the architectures and functionality of typical use cases, as well as deeper and practical guidelines for telecom professionals. The focus of the book is on current and future networks, and the most up-to-date functionalities of each network are described in sufficient detail for deployment purposes. The contents include an introduction to each technology, its evolution path, feasibility and utilization, solution and network architecture, and technical functioning of the systems (signalling, coding, different modes for channel delivery and security of core and radio system). The planning of the core and radio networks (system-specific field test measurement guidelines, hands-on network planning advices and suggestions for the parameter adjustments) and future systems are also described. Each chapter covers aspects individually for easy reference, including approaches such as: functional blocks, protocol layers, hardware and software, planning, optimization, use cases, challenges, solutions to potential problems Provides very practical detail on the planning and operation of networks to enable readers to apply the content in real-world deployments Bridges the gap between the communications in the academic context and the practical knowledge and skills needed to work in the telecommunications industry Section divisions include: General theory; Fixed telecommunications; Mobile communications; Space communications; Other and special communications; and Planning and management of telecommunication networks Covers new commercial and enhanced systems deployed, such as IPv6 based networks, LTE-Advanced and GALILEO An essential reference for Technical personnel at telecom operators; equipment and terminal manufacturers; Engineers working for network operators.

This book constitutes the refereed proceedings of the 14th International Conference on Cognitive Radio-Oriented Wireless Networks, CROWNCOM 2019, held in Poznan, Poland, in June 2019. The 30 revised full papers were selected from 48 submissions and present a large scope of research topic also covering IoT in 5G and how cognitive mechanisms shall help leveraging access for numerous devices; mmWave and how specific propagation and operation in these bands bring new sharing mechanisms ; how resource allocation amongst bands (including offload mechanisms) shall be solved. The key focus will be on how rich data analysis can improve the delivery of above defined services.

What role do universities play in the galloping process of globalization? The Globalization of Higher Education is a thoughtful, compelling examination of how the shrinking of the world is affecting universities and how they are responding. The book includes essays on various aspects of the phenomenon from university or research leaders representing 18 nations and five continents.

There are many Android programming guides that give you the basics. This book goes beyond simple apps into many areas of Android development that you simply will not find in competing books. Whether you want to add home screen app widgets to your arsenal, or create more complex maps, integrate multimedia features like the camera, integrate tightly with other applications, or integrate scripting languages, this book has you covered. Moreover, this book has over 50 pages of Honeycomb-specific material, from dynamic fragments, to integrating navigation into the action bar, to creating list-based app widgets. It also has a chapter on using NFC, the wireless technology behind Google Wallet and related services. This book is one in CommonsWare's growing series of Android related titles, including "The Busy Coder's Guide to Android Development," "Android Programming Tutorials," and the upcoming "Tuning Android Applications." Table of Contents WebView, Inside and Out Crafting Your Own Views More

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Covers the Cambridge IGCSE syllabus (0455) and the Cambridge O Level syllabus (2281), first examination from 2020. This series helps students understand economic theory, terminology and principles. It matches the Cambridge IGCSE and O Level Economics syllabuses. The coursebook helps students apply tools of economic analysis, make judgements on economic issues, use basic economic numeracy and literacy, and take greater part in decision-making processes in everyday life. Sample questions provide opportunities for students to develop their evaluative skills. It provides a foundation for advanced study in Economics such as A Level. Answers to the coursebook and workbook questions are in the teacher's resource.

Predicts that China will supplant the west as an economic superpower, and discusses China's anti-globalization stance and dubious capacity for maintaining world peace.

This first-of-its-kind book, from expert authors actively contributing to the evolution of Bluetooth specifications, provides an overview and detailed descriptions of all the security functions and features of this standard's latest core release. After categorizing all the security issues involved in ad hoc networking, this hands-on volume shows you how to design a highly secure Bluetooth system and implement security enhancements. The book also helps you fully understand the main security risks involved with introducing Bluetooth-based communications in your organization

Over the years, there has been increasing interest into the public health impact of cannabis use, especially by young adults. This follows the evidence of a growing prevalence of regular cannabis use worldwide, with approximately 200 million users. Recreational cannabis use, especially a frequent use of products with high levels of its main psychoactive ingredient delta-9-tetrahydrocannabinol (? 9-THC), can cause dependence and have transient and long-lasting detrimental mental health effects, also negatively impacting cognitive processing and brain function and metabolism. In regular users, the development of tolerance to some of the effects of cannabis, especially the pleasurable ones, may lead to progressively heavier use in order to obtain the same effects in terms of their intensity, with higher health risks. However, the Cannabis Sativa plant contains different chemicals with different potential effects. In this regard, cannabidiol has gained interest because of its potential therapeutic properties, in line with evidence that CBD and ?9-THC may exhibit opposite effects at the cannabinoid receptor type 1 (CB1), ?9-THC being a partial agonist and CBD an antagonist/inverse agonist. Different cannabinoids may modulate human brain function and behavior in different ways, with different risk–benefit profiles.

The annual series Global Conferences on Sustainable Manufacturing (GCSM) sponsored by the International Academy for Production Engineering (CIRP) is committed to excellence in the creation of sustainable products and processes that conserve energy and natural resources, have minimal negative impacts upon the natural environment and society, and adhere to the core principle of sustainability by considering the needs of the present without compromising the ability of future generations to meet their own needs. To promote this noble goal, there is a great need for increased awareness in education and training, including the dissemination of new findings on principles and practices of sustainability applied to manufacturing. The series Global Conferences on Sustainable Manufacturing offers international colleagues the opportunity to network, expand their knowledge, and improve practice globally.