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this book focuses on the principles of wireless sensor networks wsns their applications and their analysis tools with meticulous attention paid to definitions and

terminology this book presents the adopted technologies and their manufacturers in detail making wsns tangible for the reader in introductory computer networking books chapter sequencing follows the bottom up or top down architecture of the 7 layer protocol this book addresses subsequent steps in this process both horizontally and vertically thus fostering a clearer and deeper understanding through chapters that elaborate on wsn concepts and issues with such depth this book is intended for a wide audience it is meant to be a helper and motivator for senior undergraduates postgraduates researchers and practitioners it lays out important concepts and wsn relate applications uses appropriate literature to back research and practical issues and focuses on new trends senior undergraduate students can use it to familiarize themselves with conceptual foundations and practical project implementations for graduate students and researchers test beds and simulators provide vital insights into analysis methods and tools for wsns lastly in addition to applications and deployment practitioners will be able to learn more about wsn manufacturers and components within several platforms and test beds

the third edition of this hands on textbook pursues the focus on the principles of wireless sensor networks wsns their applications their protocols and standards and their analysis and test tools a meticulous care has been accorded to the definitions and terminology to make wsns felt and seen the adopted technologies as well as their manufacturers are presented in detail in introductory computer networking books chapters sequencing follows the bottom up or top down architecture of the seven layers protocol this book is some more steps after both horizontally and vertically the view and understanding are getting clearer chapters ordering is based on topics significance to the elaboration of wireless sensor networks wsns concepts and issues this book is intended for a wide audience it is meant to be help and motivate for both the senior undergraduates postgraduates researchers and practitioners concepts and wsns related applications are laid out research and practical issues are backed by appropriate literature and new trends are put under focus for senior undergraduate students it familiarizes with conceptual foundations applications and practical projects implementations for graduate students and researchers energy efficient routing protocols transport layer protocols and cross layering protocols approach are presented testbeds and simulators provide a must follow emphasis on the analysis methods and tools for wsns for practitioners besides applications and deployment the manufacturers and components of wsns at several platforms and testbeds are fully explored

this book combines elementary theory from computer science with real world challenges in global geodetic observation based on examples from the geodetic observatory wettzell germany it starts with a step by step introduction to developing stable and safe scientific software to run successful software projects the use of software toolboxes is another essential aspect that leads to the application of generative programming an example is a generative network middleware that simplifies communication one of the book s main focuses is on explaining a potential strategy involving autonomous production cells for space geodetic techniques the complete software design of a satellite laser ranging system is taken as an example such automated systems are then combined for global interaction using secure communication

tunnels for remote access the network of radio telescopes is used as a reference combined observatories form coordinated multi agent systems and offer solutions for operational aspects of the global geodetic observing system ggos with regard to industry 4 0

these proceedings are the work of researchers contributing to the 10th international conference on cyber warfare and security iccws 2015 co hosted this year by the university of venda and the council for scientific and industrial research the conference is being held at the kruger national park south africa on the 24 25 march 2015 the conference chair is dr jannie zaaiman from the university of venda south africa and the programme chair is dr louise leenen from the council for scientific and industrial research south africa

frama c is a popular open source toolset for analysis and verification of c programs largely used for teaching experimental research and industrial applications with the growing complexity and ubiquity of modern software there is increasing interest in code analysis tools at various levels of formalization to ensure safety and security of software products acknowledging the fact that no single technique will ever be able to fit all software verification needs the frama c platform features a wide set of plug ins that can be used or combined for solving specific verification tasks this guidebook presents a large panorama of basic usages research results and concrete applications of frama c since the very first open source release of the platform in 2008 it covers the acsl specification language core verification plug ins advanced analyses and their combinations key ingredients for developing new plug ins as well as successful industrial case studies in which frama c has helped engineers verify crucial safety or security properties topics and features gentle example based introduction to software specification and verification wide panorama of state of the art specification and analysis techniques step by step guide to develop your own tailor made analysis on top of the platform inspiring success stories of frama c deployment on industrial code more than 15 years of r d on analysis and verification of c code this book is firmly rooted on the practice of software analysis with numerous examples exercises and application guidelines as such it is particularly well suited for software verification practitioners wishing to deploy verification on their code as well as for undergraduate students with little or no experience in code analysis techniques more advanced sections on the theoretical underpinnings of the analyzers will be of interest for graduate students and researchers nikolai kosmatov is a senior researcher at thales research technology france virgile prevosto is a senior researcher and julien signoles is a research director both at universit   paris saclay cea list france

orthopaedic trauma represents 75 of the casualties in a disaster many of these patients will be cared for by international volunteers but good intentions are not always matched by good preparation this book explains how best to prepare for missions how to deal with injuries in austere conditions how to ensure a positive legacy and the need for cultural political and legal awareness all of the most common orthopaedic presentations encountered in the austere environment are covered in addition to evidence based research cases and actual experiences from the authors missions are included to illustrate and bring to life key points this book written by a team of

international experts with extensive experience of challenging field missions will be an ideal practical guide for volunteers and health care workers helping them to deal with confusing chaotic and distressing situations with greater confidence and efficacy

an expert guide to the latest release of the bestselling small business financial software

trb's national cooperative highway research program nchrp report 831 civil integrated management cim for departments of transportation volume 1 guidebook presents guidance for collecting organizing and managing information in digital formats about a highway or other transportation construction project volume provides background material on collecting organizing and managing information in digital formats about a highway or other transportation construction project the term civil integrated management cim has been adopted in recent years to encompass an assortment of practices and tools entailing collection organization and management of information in digital formats about highway or other transportation construction projects transportation agencies may realize significant benefits from increased adoption of these practices which may be useful when managing an asset's initial planning phase through its in service maintenance

state of the art communications receiver technologies and design strategies this thoroughly updated guide offers comprehensive explanations of the science behind today's radio receivers along with practical guidance on designing constructing and maintaining real world communications systems you will explore system planning antennas and antenna coupling amplifiers and gain control filters mixers demodulation digital communication and the latest software defined radio sdr technology written by a team of telecommunication experts communications receivers principles and design fourth edition features technical illustrations schematic diagrams and detailed examples coverage includes basic radio considerations radio receiver characteristics receiver system planning receiver implementation considerations rf and baseband techniques for software defined radios transceiver sdr considerations antennas and antenna coupling mixers frequency sources and control ancillary receiver circuits performance measurement

a complete guide to environmental remediation technologies techniques and regulations this practical resource offers comprehensive coverage of the latest environmental codes alongside step by step remediation procedures the book features information on all segments of the market including water air quality and hazardous wastes and enables you to ensure compliance with federal regulations handbook of environmental engineering fully explains engineering methods and technologies and directly connects them to applicable standards you will get details on environmental tools such as sensors and monitoring toxicity controls and treatments and waste disposal measurement data environmental impact assessments and real world examples demonstrate how to apply each technique in the field

in response to a tasking from the air force chief of staff the air force research institute conducted a review of how the service organizes educates trains and equips its cyber workforce the resulting findings were used to develop recommendations for how the air force should recruit educate train and develop cyber operators from the time they are potential accessions until they become senior leaders in the enlisted and officer corps this study s discoveries analyses and recommendations are aimed at guiding staff officers and senior leaders alike as they consider how to develop a future cyber workforce that supports both air force and us cyber command missions across the range of military operations back cover

this practical oracle press guide teaches cutting edge techniques for building configuring and managing a secure private database cloud with oracle enterprise manager 13c this hands on volume lays out ready to deploy roadmaps for the design and maintenance of high performance private database clouds using oracle enterprise manager 13c learn best practices for a wide variety of different approaches database as a service snap clone as a service schema as a service and pluggable database as a service oracle private cloud cookbook with enterprise manager 13c thoroughly explains how to architect configure and manage every component in a private database cloud lifecycle you will get an insider s solutions for securing your cloud based infrastructure generating reliable rman backups and protecting your mission critical enterprise information using oracle data guard this comprehensive volume from oracle press features detailed step by step instructions with multiple screen shots and diagrams that illustrate each technique along the way real world examples and case studies illustrate applications in various industries offers essential skills for cloud administrators and dbas author is an oracle certified master previous ace director and experienced computing writer

master java ee design pattern implementation to improve your design skills and your application s architecture professional java ee design patterns is the perfect companion for anyone who wants to work more effectively with java ee and the only resource that covers both the theory and application of design patterns in solving real world problems the authors guide readers through both the fundamental and advanced features of java ee 7 presenting patterns throughout and demonstrating how they are used in day to day problem solving as the most popular programming language in community driven enterprise software java ee provides an api and runtime environment that is a superset of java se written for the junior and experienced java ee developer seeking to improve design quality and effectiveness the book covers areas including implementation and problem solving with design patterns connection between existing java se design patterns and new java ee concepts harnessing the power of java ee in design patterns individually based focus that fully explores each pattern colorful war stories showing how patterns were used in the field to solve real life problems unlike most java ee books that simply offer descriptions or recipes this book drives home the implementation of the pattern to real problems to ensure that the reader learns how the patterns should be used and to be aware of their pitfalls for the programmer looking for a comprehensive guide that is actually useful in the everyday workflow professional java ee design patterns is the definitive resource on the market

international trade and investment have enabled many countries in the asia pacific region to boost economic growth and have lifted millions out of poverty as the asia pacific region continues to thrive economically trade and investment barriers are being dissolved and eliminated as countries begin to depend on each other more trade policy is gradually becoming a useful measure to achieve inclusive and sustainable development trade and investment are linked to the environment and social issues hence their impacts are also multi dimensional it has now been recognized that sustainable production and consumption are essential for sustainable development countries realize that they are not able to approach global and regional problems on their own and require cooperation both at the level of government and business as a result the region has been active in concluding regional cooperation frameworks which routinely are centered on trade and investment in the meantime business has forged regional integration through the formation of regional value chains and production networks while governments have paved the way for the expansion of such production networks through the formation of regional trade agreements and economic partnerships thus the asia pacific trade agreement apta which is the oldest preferential trade agreement in the region with a large consumer base can play an important role in filling this gap given a slow progress in the multilateral negotiations in the wto especially when the members have started questioning the utility of the negotiations after 15 years and a lack of consensus on how to move forward the regional trade agreements can play a vital role even if they pose a challenge to the multilateralism selected liberalisation of trade and economy in present time can become a building block for future multilateral negotiations one of the reasons for the surge in these preferential trade agreements is to make binding commitments on wto plus and wto beyond issues while there are many agreements that exist in asia and the pacific there is no such attempt to consolidate them in one umbrella framework understanding the benefits of the consolidation one such initiative was started by escap a few years back the reci initiate for market integration could well be facilitated by apta however it cannot deliver unless it transforms itself in a new generation agreement regional integration and cooperation are also important to meet the 2030 agenda for sustainable development instead of wasting resources in discussing a new institutional framework it would be more effective to use the existing framework and for the asia pacific economies the apta provides an existing institutional platform the cases discussed in this book prepare a ground for the future and it is expected that all the stakeholders member states of escap private sector as well as researchers would benefit from this publication on apta south south regional integration and sustainable development

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