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WLSA. John Wiley & Sons
Learn, prepare, and practice for exam success Master every topic on Microsoft's new MCTS 70-640 exam. Assess your knowledge and focus your learning. Get the practical workplace knowledge you need! CD Includes Complete Sample Exam Start-to-finish MCTS 70-640 preparation from top Microsoft technology consultant, trainer, and author Don Poulton! Master every MCTS 70-640 topic! DNS and domain installation, including zones AD Domain Services installation Upgrading older domains Server settings and replication Global catalogs and operations masters Site management and data replication AD LDS, AD FS, and AD RMS roles Read-Only Domain Controller deployment User/group account management Trust relationships, including troubleshooting Group Policy Object configuration, usage, and hierarchies Software deployment via group policies Account and audit policy management Monitoring and maintenance Certificate Services installation, configuration, and management Test your knowledge, build your confidence, and succeed! Packed with visuals to help you learn fast Dozens of troubleshooting scenarios Real-world MCTS 70-640 prep advice from experts Easy-to-use exam preparation task lists From Don Poulton, professional Microsoft technology consultant, IT training expert, and best-selling exam guide author Don Poulton (A+, Network+, Security+, MCSA, MCSE) is an independent consultant who has been involved with computers since the days of 80-column punch cards. He has consulted extensively with training providers, preparing training and exam prep materials for Windows technologies. He has written or contributed to several Que titles, including MCTS 70-680 Cert Guide: Microsoft® Windows 7, Configuring; Security+ Lab Manual; and MCSA/MCSE 70-299 Exam Cram 2. CD Includes Complete Sample Exam Detailed explanations of correct and incorrect answers Multiple test modes Random questions and order of answers Shelving Category: Certification/Microsoft

CCNA Cyber Ops SECFND #210-250 Official Cert Guide "O'Reilly Media, Inc."
A comprehensive guide to predicting weather patterns covers cloud classification, optical phenomena, precipitation, wind, severe weather, satellite images, weather maps, and much, much more. Original.

Clearinghouse Review Createspace Independent Publishing Platform
The latest edition of the essential text and professional reference, with substantial new material on such topics as vEB trees, multithreaded algorithms, dynamic programming, and edge-based flow. Some books on algorithms are rigorous but incomplete; others cover masses of material but lack rigor. Introduction to Algorithms uniquely combines rigor and comprehensiveness. The book covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers. Each chapter is relatively self-contained and can be used as a unit of study. The algorithms are described in English and in a pseudocode designed to be readable by anyone who has done a little programming. The explanations have been kept elementary without sacrificing depth of coverage or mathematical rigor. The first edition became a widely used text in universities worldwide as well as the standard reference for professionals. The second edition featured new chapters on the role of algorithms, probabilistic analysis and randomized algorithms, and linear programming. The third edition has been revised and updated throughout. It includes two completely new chapters, on van Emde Boas trees and multithreaded algorithms, substantial additions to the chapter on recurrence (now called "Divide-and-Conquer"), and an appendix on matrices. It features improved treatment of dynamic programming and greedy algorithms and a new notion of edge-based flow in the material on flow networks. Many exercises and problems have been added for this edition. The international paperback edition is no longer available; the hardcover is available worldwide.

Security+ Guide to Network Security Fundamentals Ivan R. Dee

Most applications these days are at least somewhat network aware, but how do you protect those applications against common network security threats? Many developers are turning to OpenSSL, an open source version of SSL/TLS, which is the most widely used protocol for secure network communications.The OpenSSL library is seeing widespread adoption for web sites that require cryptographic functions to protect a broad range of sensitive information, such as credit card numbers and other financial transactions. The library is the only free, full-featured SSL implementation for C and C++, and it can be used programmatically or from the command line to secure most TCP-based network protocols.Network Security with OpenSSL enables developers to use this protocol much more effectively. Traditionally, getting something simple done in OpenSSL could easily take weeks. This concise book gives you the guidance you need to avoid pitfalls, while allowing you to take advantage of the library?s advanced features. And, instead of bogging you down in the technical details of how SSL works under the hood, this book provides only the information that is necessary to use OpenSSL safely and effectively. In step-by-step fashion, the book details the challenges in securing network communications, and shows you how to use OpenSSL tools to best meet those challenges.As a system or network administrator, you will benefit from the thorough treatment of the OpenSSL command-line interface, as well as from step-by-step directions for obtaining certificates and setting up your own certification authority. As a developer, you will further benefit from the in-depth discussions and examples of how to use OpenSSL in your own programs. Although OpenSSL is written in C, information on how to use OpenSSL with Perl, Python and PHP is also included.OpenSSL may well answer your need to protect sensitive data. If that?s the case, Network Security with OpenSSL is the only guide available on the subject.

Building Secure and Reliable Systems Syngress

Now in the 5th edition, Cracking the Coding Interview gives you the interview preparation you need to get the top software developer jobs. This book provides: 150 Programming Interview Questions and Solutions: From binary trees to binary search, this list of 150 questions includes the most common and most useful questions in data structures, algorithms, and knowledge based questions. 5 Algorithm Approaches: Stop being blind-sided by tough algorithm questions, and learn these five approaches to tackle the trickiest problems. Behind the Scenes of the interview processes at Google, Amazon, Microsoft, Facebook, Yahoo, and Apple: Learn what really goes on during your interview day and how decisions get made. Ten Mistakes Candidates Make -- And How to Avoid Them: Don't lose your dream job by making these common mistakes. Learn what many candidates do wrong, and how to avoid these issues. Steps to Prepare for Behavioral and Technical Questions: Stop meandering through an endless set of questions, while missing some of the most important preparation techniques. Follow these steps to more thoroughly prepare in less time.

Introduction to Algorithms, third edition Springer Science & Business Media

Essential Study SkillsThe Complete Guide to Success at UniversitySAGE

A Guide for the Penetration Tester No Starch Press

Lecturers, why waste time waiting for the post to arrive? Request your e-inspection copy today! 'Brilliant little book! ... It's easy to follow and understand, full of practical hints and tips, helps to remove some of the pressures of uni life!' - Amazon review 'Really useful sections on reading and taking notes ... the bread and butter of student life.' - Amazon review Do you want to do better at university? Whether you're a student wanting to improve their study skills or a lecturer who wants to give their students a helping hand with their work, this book is for you. Packed with study tips and handy activities, this proven guide shows you step-by-step how to study effectively and make the best of your time - whatever level you're at. Whether you are going to university straight from school, a mature student, or an overseas student studying in the UK for the first time, you'll find out how to: Sail through those tricky first weeks Get the most out of lectures by understanding how you learn Learn techniques for academic writing and research Pass exams with flying colours Stay cool and cope with stress. Practical and interactive, this edition features six brand new chapters to arm you with even more essential skills including how to produce a dissertation, planning your career and focusing on building relationships with lecturers and other students to help you get ahead. Visit the Essential Study Skills Companion Website Launched with this edition is an improved and expanded companion website. Don't miss the extensive range of guidance and resources for both students and tutors, including video tips, study packs, practice exercises and other tools for you to use in both your preparation and actual work. SAGE Study Skills are essential study guides for students of all levels. From how to write great essays and succeeding at university, to writing your undergraduate dissertation and doing postgraduate research, SAGE Study Skills help you get the best from your time at university. Visit the SAGE Study Skills website for tips, quizzes and videos on study success!

Kindergarten Through Grade Twelve Cisco Press

Can a system be considered truly reliable if it isn't fundamentally secure? Or can it be considered secure if it's unreliable? Security is crucial to the design and operation of scalable systems in production, as it plays an important part in product quality, performance, and availability. In this book, experts from Google share best practices to help your organization design scalable and reliable systems that are fundamentally secure. Two previous O'Reilly books from Google—Site Reliability Engineering and The Site Reliability Workbook—demonstrated how and why a commitment to the entire service lifecycle enables organizations to successfully build, deploy, monitor, and maintain software systems. In this latest guide, the authors offer insights into system design, implementation, and maintenance from practitioners who specialize in security and reliability. They also discuss how building and adopting their recommended best practices requires a culture that's supportive of such change. You'll learn about secure and reliable systems through: Design strategies Recommendations for coding, testing, and debugging practices Strategies to prepare for, respond to, and recover from incidents Cultural best practices that help teams across your organization collaborate effectively

Transformative Classroom Management IBM Redbooks

A complete handbook on Microsoft Identity Manager 2016 – from design considerations to operational best practices About This Book Get to grips with the basics of identity management and get acquainted with the MIM components and functionalities Discover the newly-introduced product features and how they can help your organization A step-by-step guide to enhance your foundational skills in using Microsoft Identity Manager from those who have taught and supported large and small enterprise customers Who This Book Is For If you are an architect or a developer who wants to deploy, manage, and operate Microsoft Identity Manager 2016, then this book is for you. This book will also help the technical decision makers who want to improve their knowledge of Microsoft Identity Manager 2016. A basic understanding of Microsoft-based infrastructure using Active Directory is expected. Identity management beginners and experts alike will be able to apply the examples and scenarios to solve real-world customer problems. What You Will Learn Install MIM

components Find out about the MIM synchronization, its configuration settings, and advantages Get to grips with the MIM service capabilities and develop custom activities Use the MIM Portal to provision and manage an account Mitigate access escalation and lateral movement risks using privileged access management Configure client certificate management and its detailed permission model Troubleshoot MIM components by enabling logging and reviewing logs Back up and restore the MIM 2015 configuration Discover more about periodic purging and the coding best practices In Detail Microsoft Identity Manager 2016 is Microsoft's solution to identity management. When fully installed, the product utilizes SQL, SharePoint, IIS, web services, the .NET Framework, and SCSM to name a few, allowing it to be customized to meet nearly every business requirement. The book is divided into 15 chapters and begins with an overview of the product, what it does, and what it does not do. To better understand the concepts in MIM, we introduce a fictitious company and their problems and goals, then build an identity solutions to fit those goals. Over the course of this book, we cover topics such as MIM installation and configuration, user and group management options, self-service solutions, role-based access control, reducing security threats, and finally operational troubleshooting and best practices. By the end of this book, you will have gained the necessary skills to deploy, manage and operate Microsoft Identity Manager 2016 to meet your business requirements and solve real-world customer problems. Style and approach The concepts in the book are explained and illustrated with the help of screenshots as much as possible. We strive for readability and provide you with step-by-step instructions on the installation, configuration, and operation of the product. Throughout the book, you will be provided on-the-field knowledge that you won't get from whitepapers and help files.

CompTIA Security+ SY0-501 Cert Guide SAGE

A practical, indispensable security guide that will navigate you through the complex realm of securely building and deploying systems in our IoT-connected world About This Book Learn to design and implement cyber security strategies for your organization Learn to protect cyber-physical systems and utilize forensic data analysis to beat vulnerabilities in your IoT ecosystem Learn best practices to secure your data from device to the cloud Gain insight into privacy-enhancing techniques and technologies Who This Book Is For This book targets IT Security Professionals and Security Engineers (including pentesters, security architects and ethical hackers) who would like to ensure security of their organization's data when connected through the IoT. Business analysts and managers will also find it useful. What You Will Learn Learn how to break down cross-industry barriers by adopting the best practices for IoT deployments Build a rock-solid security program for IoT that is cost-effective and easy to maintain Demystify complex topics such as cryptography, privacy, and penetration testing to improve your security posture See how the selection of individual components can affect the security posture of the entire system Use Systems Security Engineering and Privacy-by-design principles to design a secure IoT ecosystem Get to know how to leverage the burdgening cloud-based systems that will support the IoT into the future. In Detail With the advent of Intenret of Things (IoT), businesses will be faced with defending against new types of threats. The business ecosystem now includes cloud computing infrastructure, mobile and fixed endpoints that open up new attack surfaces, a desire to share information with many stakeholders and a need to take action quickly based on large quantities of collected data. . It therefore becomes critical to ensure that cyber security threats are contained to a minimum when implementing new IoT services and solutions. . The interconnectivity of people, devices, and companies raises stakes to a new level as computing and action become even more mobile, everything becomes connected to the cloud, and infrastructure is strained to securely manage the billions of devices that will connect us all to the IoT. This book shows you how to implement cyber-security solutions, IoT design best practices and risk mitigation methodologies to address device and infrastructure threats to IoT solutions. This book will take readers on a journey that begins with understanding the IoT and how it can be applied in various industries, goes on to describe the security challenges associated with the IoT, and then provides a set of guidelines to architect and deploy a secure IoT in your Enterprise. The book will showcase how the IoT is implemented in early-adopting industries and describe how lessons can be learned and shared across diverse industries to support a secure IoT. Style and approach This book aims to educate readers on key areas in IoT security. It walks readers through engaging with security challenges and then provides answers on how to successfully manage IoT security and build a safe infrastructure for smart devices. After reading this book, you will understand the true potential of tools and solutions in order to build real-time security intelligence on IoT networks.

Computer Security - ESORICS 94 Simon and Schuster

Some copies of CompTIA Security+ Study Guide: Exam SY0-501 (9781119416876) were printed without discount exam vouchers in the front of the books. If you did

not receive a discount exam voucher with your book, please visit http://media.wiley.com/product_ancillary/5X/11194168/DOWNLOAD/CompTIA_Coupon.pdf to download one. Expert preparation covering 100% of Security+ exam SY0-501 objectives CompTIA Security+ Study Guide, Seventh Edition offers invaluable preparation for Exam SY0-501. Written by an expert author team, this book covers 100% of the exam objectives with clear, concise explanation. You'll learn how to handle threats, attacks, and vulnerabilities using industry-standard tools and technologies, while understanding the role of architecture and design. From everyday tasks like identity and access management to complex topics like risk management and cryptography, this study guide helps you consolidate your knowledge base in preparation for the Security+ exam. Practical examples illustrate how these processes play out in real-world scenarios, allowing you to immediately translate essential concepts to on-the-job application. You also gain access to the Sybex online learning environment, which features a robust toolkit for more thorough prep: flashcards, glossary of key terms, practice questions, and a pre-assessment exam equip you with everything you need to enter the exam confident in your skill set. This study guide is approved and endorsed by CompTIA, and has been fully updated to align with the latest version of the exam. Master essential security technologies, tools, and tasks Understand how Security+ concepts are applied in the real world Study on the go with electronic flashcards and more Test your knowledge along the way with hundreds of practice questions To an employer, the CompTIA Security+ certification proves that you have the knowledge base and skill set to secure applications, devices, and networks; analyze and respond to threats; participate in risk mitigation, and so much more. As data threats loom larger every day, the demand for qualified security professionals will only continue to grow. If you're ready to take the first step toward a rewarding career, CompTIA Security+ Study Guide, Seventh Edition is the ideal companion for thorough exam preparation.

CISSP (ISC)2 Certified Information Systems Security Professional Official Study Guide Packt Publishing Ltd

Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven’t kept pace with today’s more hostile security environment, leaving millions vulnerable to attack. The Car Hacker’s Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle’s communication network, you’ll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker’s Handbook will show you how to: –Build an accurate threat model for your vehicle –Reverse engineer the CAN bus to fake engine signals –Exploit vulnerabilities in diagnostic and data-logging systems –Hack the ECU and other firmware and embedded systems –Feed exploits through infotainment and vehicle-to-vehicle communication systems –Override factory settings with performance-tuning techniques –Build physical and virtual test benches to try out exploits safely If you’re curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker’s Handbook your first stop.

My Life As a 50+ Year-Old White Male Springer Science & Business Media

At a crucial point in the twentieth century, as Nazi Germany prepared for war, negotiations between Britain, France, and the Soviet Union became the last chance to halt Hitler’s aggression. Incredibly, the French and British governments dallied, talks failed, and in August 1939 the Soviet Union signed a nonaggression pact with Germany. Michael Carley’s gripping account of these negotiations is not a pretty story. It is about the failures of appeasement and collective security in Europe. It is about moral depravity and blindness, about villains and cowards, and about heroes who stood against the intellectual and popular tides of their time. Some died for their beliefs, others labored in obscurity and have been nearly forgotten. In 1939 they sought to make the Grand Alliance that never was between France, Britain, and the Soviet Union. This story of their efforts is background to the wartime alliance created in 1941 without France but with the United States in order to defeat a demonic enemy. 1939 is based upon Mr. Carley’s longtime research on the period, including work in French, British, and newly opened Soviet archives. He challenges prevailing interpretations of the origins of World War II by situating 1939 at the end of the early cold war between the Soviet Union, France, and Britain, and by showing how anti-communism was the major cause of the failure to form an alliance against Hitler. 1939 was published on September 1, the sixtieth anniversary of the Nazi invasion of Poland and the start of the war.

Advanced CISSP Prep Guide O'Reilly Media

This is the eBook version of the print title. Note that the eBook may not provide access to the practice test software that accompanies the print book. Access to the companion files are available through product registration at Pearson IT Certification, or see the instructions in the back pages of your eBook.

Learn, prepare, and practice for CompTIA Security+ SY0-501 exam success with this CompTIA approved Cert Guide from Pearson IT Certification, a leader in IT certification learning and a CompTIA Authorized Platinum Partner. · Master CompTIA Security+ SY0-501 exam topics · Assess your knowledge with chapter-ending quizzes · Review key concepts with exam preparation tasks · Practice with realistic exam questions CompTIA Security+ SY0-501 Cert Guide is a best-of-breed exam study guide. Best-selling author and expert instructor David L. Prowse shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending chapter review activities help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this CompTIA approved study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The CompTIA approved study guide helps you master all the topics on the Security+ exam, including · Core computer system security · OS hardening and virtualization · Application security · Network design elements · Networking ports, protocols, and threats · Network perimeter security · Physical security and authentication models · Access control · Vulnerability and risk assessment · Monitoring and auditing · Cryptography, including PKI · Redundancy and disaster recovery · Social Engineering · Policies and procedures

Dekker Encyclopedia of Nanoscience and Nanotechnology Simon and Schuster

From the Pulitzer Prize–winning author of All the Light We Cannot See, perhaps the most bestselling and beloved literary fiction of our time, comes a triumph of imagination and compassion, a soaring novel about children on the cusp of adulthood in a broken world, who find resilience, hope, and story. The heroes of Cloud Cuckoo Land are trying to figure out the world around them: Anna and Omeir, on opposite sides of the formidable city walls during the 1453 siege of Constantinople; teenage idealist Seymour in an attack on a public library in present day Idaho; and Konstance, on an interstellar ship bound for an exoplanet, decades from now. Like Marie-Laure and Werner in All the Light We Cannot See, Anna, Omeir, Seymour, and Konstance are dreamers and outsiders who find resourcefulness and hope in the midst of peril. An ancient text—the story of Aethon, who longs to be turned into a bird so that he can fly to a utopian paradise in the sky—provides solace and mystery to these unforgettable characters. Doerr has created a tapestry of times and places that reflects our vast interconnectedness—with other species, with each other, with those who lived before us and those who will be here after we’re gone. Dedicated to “the librarians then, now, and in the years to come,” Cloud Cuckoo Land is a hauntingly beautiful and redemptive novel about stewardship—of the book, of the Earth, of the human heart.

Cloud Cuckoo Land (Large Print Edition) Pearson IT Certification The differences between well-designed security and poorly designed security are not always readily apparent. Poorly designed systems give the appearance of being secure but can over-authorize users or allow access to non-users in subtle ways. The problem is that poorly designed security gives a false sense of confidence. In some ways, it is better to knowingly have no security than to have inadequate security believing it to be stronger than it actually is. But how do you tell the difference? Although it is not rocket science, designing and implementing strong security requires strong foundational skills, some examples to build on, and the capacity to devise new solutions in response to novel challenges. This IBM® Redbooks® publication addresses itself to the first two of these requirements. This book is intended primarily for security specialists and IBM WebSphere® MQ administrators that are responsible for securing WebSphere MQ networks but other stakeholders should find the information useful as well. Chapters 1 through 6 provide a foundational background for WebSphere MQ security. These chapters take a holistic approach positioning WebSphere MQ in the context of a larger system of security controls including those of adjacent platforms' technologies as well as human processes. This approach seeks to eliminate the simplistic model of security as an island, replacing it instead with the model of security as an interconnected and living system. The intended audience for these chapters includes all stakeholders in the messaging system from architects and designers to developers and operations. Chapters 7 and 8 provide technical background to assist in preparing and configuring the scenarios and chapters 9 through 14 are the scenarios themselves. These chapters provide fully realized example configurations. One of the requirements for any scenario to be included was that it must first be successfully implemented in the team's lab environment. In addition, the advice provided is the cumulative result of years of participation in the online community by the authors and reflect real-world practices adapted for the latest security features in WebSphere MQ V7.1 and

WebSphere MQ V7.5. Although these chapters are written with WebSphere MQ administrators in mind, developers, project leaders, operations staff, and architects are all stakeholders who will find the configurations and topologies described here useful. The third requirement mentioned in the opening paragraph was the capacity to devise new solutions in response to novel challenges. The only constant in the security field is that the technology is always changing. Although this book provides some configurations in a checklist format, these should be considered a snapshot at a point in time. It will be up to you as the security designer and implementor to stay current with security news for the products you work with and integrate fixes, patches, or new solutions as the state of the art evolves.

Practical Internet of Things Security John Wiley & Sons
Master powerful techniques and approaches for securing IoT systems of all kinds–current and emerging Internet of Things (IoT) technology adoption is accelerating, but IoT presents complex new security challenges. Fortunately, IoT standards and standardized architectures are emerging to help technical professionals systematically harden their IoT environments. In Orchestrating and Automating Security for the Internet of Things, three Cisco experts show how to safeguard current and future IoT systems by delivering security through new NFV and SDN architectures and related IoT security standards. The authors first review the current state of IoT networks and architectures, identifying key security risks associated with nonstandardized early deployments and showing how early adopters have attempted to respond. Next, they introduce more mature architectures built around NFV and SDN. You'll discover why these lend themselves well to IoT and IoT security, and master advanced approaches for protecting them. Finally, the authors preview future approaches to improving IoT security and present real-world use case examples. This is an indispensable resource for all technical and security professionals, business security and risk managers, and consultants who are responsible for systems that incorporate or utilize IoT devices, or expect to be responsible for them. · Understand the challenges involved in securing current IoT networks and architectures · Master IoT security fundamentals, standards, and modern best practices · Systematically plan for IoT security · Leverage Software-Defined Networking (SDN) and Network Function Virtualization (NFV) to harden IoT networks · Deploy the advanced IoT platform, and use MANO to manage and orchestrate virtualized network functions · Implement platform security services including identity, authentication, authorization, and accounting · Detect threats and protect data in IoT environments · Secure IoT in the context of remote access and VPNs · Safeguard the IoT platform itself · Explore use cases ranging from smart cities and advanced energy systems to the connected car · Preview evolving concepts that will shape the future of IoT security

Vehicle Safety Communications Pearson Education
This volume constitutes the proceedings of the Third European Symposium on Research in Computer Security, held in Brighton, UK in November 1994. The 26 papers presented in the book in revised versions were carefully selected from a total of 79 submissions; they cover many current aspects of computer security research and advanced applications. The papers are grouped in sections on high security assurance software, key management, authentication, digital payment, distributed systems, access control, databases, and measures.

Cracking the Coding Interview Globe Pequot
Provides an up-to-date, in-depth look at the currentresearch, design, and implementation of cooperative vehicle safetycommunication protocols and technology Improving traffic safety has been a top concern fortransportation agencies around the world and the focus of heavyresearch and development efforts sponsored by both governments andprivate industries. Cooperative vehicle systems—which usesensors and wireless technologies to reduce trafficaccidents—can play a major role in making the world's roadssafer. Vehicle Safety Communications: Protocols, Security, andPrivacy describes fundamental issues in cooperative vehiclesafety and recent advances in technologies for enabling cooperativevehicle safety. It gives an overview of traditional vehicle safetyissues, the evolution of vehicle safety technologies, and the needfor cooperative systems where vehicles work together to reduce thenumber of crashes or mitigate damage when crashes becomeunavoidable. Authored by two top industry professionals, the book: Summarizes the history and current status of 5.9 GHz DedicatedShort Range Communications (DSRC) technology and standardization,discussing key issues in applying DSRC to support cooperativevehicle safety Features an in-depth overview of on-board equipment (OBE) androadside equipment (RSE) by describing sample designs to illustratethe key issues and potential solutions Takes on security and privacy

protection requirements andchallenges, including how to design privacy-preserving digitalcertificate management systems and how to evict misbehavingvehicles Includes coverage of vehicle-to-infrastructure (V2I)communications like intersection collision avoidance applicationsand vehicle-to-vehicle (V2V) communications like extendedelectronic brake lights and intersection movement assist Vehicle Safety Communications is ideal for anyone workingin the areas of—or studying—cooperative vehicle safetyand vehicle communications.

Information Problem-solving Packt Publishing Ltd

Autophagy is a fundamental biological process that enables cells to autodigest their own cytosol during starvation and other forms of stress. It has a growing spectrum of acknowledged roles in immunity, aging, development, neurodegeneration, and cancer biology. An immunological role of autophagy was first recognized with the discovery of autophagy’s ability to sanitize the cellular interior by killing intracellular microbes. Since then, the repertoire of autophagy’s roles in immunity has been vastly expanded to include a diverse but interconnected portfolio of regulatory and effector functions. Autophagy is an effector of Th1/Th2 polarization; it fuels MHC II presentation of cytosolic (self and microbial) antigens; it shapes central tolerance; it affects B and T cell homeostasis; it acts both as an effector and a regulator of Toll-like receptor and other innate immunity receptor signaling; and it may help ward off chronic inflammatory disease in humans. With such a multitude of innate and adaptive immunity functions, the study of autophagy in immunity is one of the most rapidly growing fields of contemporary immunological research. This book introduces the reader to the fundamentals of autophagy, guides a novice and the well-informed reader alike through different immunological aspects of autophagy as well as the countermeasures used by highly adapted pathogens to fight autophagy, and provides the expert with the latest, up-to-date information on the specifics of the leading edge of autophagy research in infection and immunity.