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### KEY=2006 - JAZLYN ANDREW

**The Car Hacker's Handbook A Guide for the Penetration Tester** No Starch Press 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. **CompTIA Security+ SY0-301 Cert Guide** Pearson Education Learn, prepare, and practice for CompTIA Security+ SY0-301 exam success with this CompTIA Authorized Cert Guide from Pearson IT Certification, a leader in IT Certification learning and a CompTIA Authorized Platinum Partner. This is the eBook edition of the CompTIA Security+ SY0-301 Authorized Cert Guide. This eBook does not include the companion DVD with practice exam that comes with the print edition. This version does include access to the video tutorial solutions to the 25 hands-on labs. Master CompTIA's new Security+ SY0-301 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks Includes access to complete video solutions to the 25 hands-on labs Limited Time Offer: Buy CompTIA Security+ SY0-301 Authorized Cert Guide and receive a 10% off discount code for the CompTIA Security+ SY0-301 exam. To receive your 10% off discount code: 1. Register your product at pearsonITcertification.com/register 2. When promoted enter ISBN number 9780789749215 3. Go to your Account page and click on "Access Bonus Content" CompTIA Security+ SY0-301 Authorized Cert Guide is a best-of-breed exam study guide. Best-selling author and expert instructor David 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 Exam Preparation Tasks 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 approach to passing the exam. This product includes access to the complete video solutions to the 25 Hands-On Labs in the book focused on key exam topics. **The Lineman's and Cableman's Field Manual** McGraw Hill Professional One-stop portable reference for linemen and cablemen. Take all the key information you need to every jobsite in one easy-to-use reference! Lineman's and Cableman's Field Manual, by Thomas M. Shoemaker and James E. Mack, packs the latest NEC® and OSHA standards and safety rules pertaining to electrical line maintenance and construction. This convenient hands-on tool gives you: \*Diagrams for overhead transformer connections... ampacity and physical data... fusing guidelines... conductor sag table data and sample calculations... and preventative equipment maintenance procedures \* Sample guying calculations and charts \* Primary and secondary conductor ampacity tables for underground construction as well as fusing and secondary design guidelines \* Advice for personnel protective equipment, and correct techniques for pole-top and bucket rescue and resuscitation \* Lightning protection data \* Step-by-step guide to proper grounding \* Tree trimming techniques for line clearance \* Diagrams of the most commonly utilized knots, splices and gear \* Much, much more! **Lineman's and Cableman's Handbook 12th Edition** McGraw Hill Professional The definitive guide to distribution and transmission line technology--fully updated Completely revised to reflect the 2012 National Electrical Safety Code (NESC), The Lineman's and Cableman's Handbook, 12th Edition, provides in-depth information on overhead and underground distribution and transmission lines. The latest OSHA, ANSI, and ASTM standards are emphasized throughout. This authoritative resource presents basic principles, equipment, standards, and safety regulations, allowing electrical workers to avoid costly errors, diagnose and repair power failures, and ensure optimum safety. A wealth of illustrations and photographs make it easy to understand the material, and self-test questions and exercises help reinforce key concepts. Comprehensive coverage includes: Electrical principles and systems \* Substations \* Circuits \* Construction \* Wood-pole, aluminum, concrete, fiberglass, and steel structures \* Distribution automation \* Emergency system restoration \* Unloading, hauling, erecting, setting, and guying poles \* Insulators, crossarms, and conductor supports \* Line conductors \* Distribution transformers \* Lightning and surge protection \* Fuses \* Switches, sectionalizers, and reclosers \* Voltage regulators \* Transmission tower erection \* Stringing, sagging, and joining line conductors \* Live-line maintenance \* Grounding \* Street lighting \* Underground distribution \* Vegetation management \* Distribution transformer installation \* Electrical drawing symbols \* Single-line and schematic diagrams \* Voltage regulation \* Units of measurement, electrical definitions, electrical formulas, and calculations \* Maintenance of transmission and distribution lines \* Rope, knots, splices, and gear \* Climbing and wood poles \* Protective equipment \* OSHA 1910.269 \* Resuscitation \* Pole-top and bucket rescue **Autonomous Driving Technical, Legal and Social Aspects** Springer This book takes a look at fully automated, autonomous vehicles and discusses many open questions: How can autonomous vehicles be integrated into the current transportation system with diverse users and human drivers? Where do automated vehicles fall under current legal frameworks? What risks are associated with automation and how will society respond to these risks? How will the marketplace react to automated vehicles and what changes may be necessary for companies? Experts from Germany and the United States define key societal, engineering, and mobility issues related to the automation of vehicles. They discuss the decisions programmers of automated vehicles must make to enable vehicles to perceive their environment, interact with other road users, and choose actions that may have ethical consequences. The authors further identify expectations and concerns that will form the basis for individual and societal acceptance of autonomous driving. While the safety benefits of such vehicles are tremendous, the authors demonstrate that these benefits will only be achieved if vehicles have an appropriate safety concept at the heart of their design. Realizing the potential of automated vehicles to reorganize traffic and transform mobility of people and goods requires similar care in the design of vehicles and networks. By covering all of these topics, the book aims to provide a current, comprehensive, and scientifically sound treatment of the emerging field of "autonomous driving". **Advances in Signal Processing and Communication Select Proceedings of ICSC 2018** Springer This book is a collection of selected peer-reviewed papers presented at the International Conference on Signal Processing and Communication (ICSC 2018). It covers current research and developments in the fields of communications, signal processing, VLSI circuits and systems, and embedded systems. The book offers in-depth discussions and analyses of latest problems across different sub-fields of signal processing and communications. The contents of this book will prove to be useful for students, researchers, and professionals working in electronics and electrical engineering, as well as other allied fields. **Infrastructure and Safety in a Collaborative World Road Traffic Safety** Springer Science & Business Media The book investigates how, and which, forgiving road environments (FOR) and self-explaining road measures (SER) will contribute to increasing road safety and also increase network efficiency on the road. It presents both the general approach and the methodology for generating the possible FOR and SER measures. The book further discusses the prioritization and the testing methodologies, as well as the designing VMS methodology. The next parts of the book present a few important examples: lane departure warning systems; intelligent speed adaptation systems and perception enhancement studies; designs of European pictorial signs, e.g. for VMS but also examples of designs of European road wordings; and finally how personalization can take place of VMS signs and wordings for the individual driver. The last part shows the final evaluation of FOR and SER, and detailed Multiple Criterion Analysis and Cost Benefit Analyses are performed on a number of FOR and SER measures. This results in the development of a set of guidelines, conclusions and recommendations for the future. **Handbook of Driver Assistance Systems Basic Information, Components and Systems for Active Safety and Comfort** Springer This fundamental work explains in detail systems for active safety and driver assistance, considering both their structure and their function. These include the well-known standard systems such as Anti-lock braking system (ABS), Electronic Stability Control (ESC) or Adaptive Cruise Control (ACC). But it includes also new systems for protecting collisions protection, for changing the lane, or for convenient parking. The book aims at giving a complete picture focusing on the entire system. First, it describes the components which are necessary for assistance systems, such as sensors, actuators, mechatronic subsystems, and control elements. Then, it explains key features for the user-friendly design of human-machine interfaces between driver and assistance system. Finally, important characteristic features of driver assistance systems for particular vehicles are presented: Systems for commercial vehicles and motorcycles. **The 'Made in Germany' Champion Brands Nation Branding, Innovation and World Export Leadership** Routledge Germany's economic miracle is a widely-known phenomenon, and the world-leading, innovative products and services associated with German companies are something that others seek to imitate. In The 'Made in Germany' Champion Brands, Ugesh A. Joseph provides an extensively researched, insightful look at over 200 of Germany's best brands to see what they stand for, what has made them what they are today, and what might be transferable. The way Germany is branded as a nation carries across into the branding of its companies and services, particularly the global superstar brands - truly world-class in size, performance and reputation. Just as important are the medium-sized and small enterprises, known as the 'Mittelstand'. These innovative and successful enterprises from a wide range of industries and product / service categories are amongst the World market leaders in their own niche and play a huge part in making Germany what it is today. The book also focuses on German industrial entrepreneurship and a selection of innovative and emergent stars. All these companies are supported and encouraged by a sophisticated infrastructure of facilitators, influencers and enhancers - the research, industry, trade and standards organizations, the fairs and exhibitions and all the social and cultural factors that influence, enhance and add positive value to the country's image. Professionals or academics interested in business; entrepreneurship; branding and marketing; product or service development; international trade and business development policy, will find fascinating insights in this book; while those with an interest in Germany from emerging industrial economies will learn something of the secrets of German success. **MEG An Introduction to Methods** Oxford University Press Magnetoencephalography (MEG) is an exciting brain imaging technology that allows real-time tracking of neural activity, making it an invaluable tool for advancing our understanding of brain function. In this comprehensive introduction to MEG, Peter Hansen, Morten Kringelbach, and Riitta Salmelin have brought together the leading researchers to provide the basic tools for planning and executing MEG experiments, as well as analyzing and interpreting the resulting data. Chapters on the basics describe the fundamentals of MEG and its instrumentation, and provide guidelines for designing experiments and performing successful measurements. Chapters on data analysis present it in detail, from general concepts and assumptions to analysis of evoked responses and oscillatory background activity. Chapters on solutions propose potential solutions to the inverse problem using techniques such as minimum norm estimates, spatial filters and beamformers. Chapters on combinations elucidate how MEG can be used to complement other neuroimaging techniques. Chapters on applications provide practical examples of how to use MEG to study sensory processing and cognitive tasks, and how MEG can be used in a clinical setting. These chapters form a complete basic reference source for those interested in exploring or already using MEG that will hopefully inspire them to try to develop new, exciting approaches to designing and analyzing their own studies. This book will be a valuable resource for researchers from diverse fields, including neuroimaging, cognitive neuroscience, medical imaging, computer modelling, as well as for clinical practitioners. **Sustainable Building for a Cleaner Environment Selected Papers from the World Renewable Energy Network's Med Green Forum 2017** Springer This book contains selected papers presented during the bi-annual World Renewable Energy Network's Med Green Forum aimed at the international community as well as Mediterranean countries. This forum highlights the importance of growing renewable energy applications in two main sectors: Electricity Generation and the Sustainable Building Sector. In-depth chapters highlight the most current research and technological breakthroughs, covering a broad range of renewable energy technologies and applications in all sectors - for electricity production, heating and cooling, agricultural applications, water desalination, industrial applications and for the transport sectors. **Electromagnetics and Network Theory and their Microwave Technology Applications A Tribute to Peter Russer** Springer Science & Business Media This volume provides a discussion

of the challenges and perspectives of electromagnetics and network theory and their microwave applications in all aspects. It collects the most interesting contribution of the symposium dedicated to Professor Peter Russer held in October 2009 in Munich. **The 2005 DARPA Grand Challenge The Great Robot Race** Springer The DARPA Grand Challenge was a landmark in the field of robotics: a race by autonomous vehicles through 132 miles of rough Nevada terrain. It showcased exciting and unprecedented capabilities in robotic perception, navigation, and control. The event took place in October 2005 and drew teams of competitors from academia and industry, as well as many garage hobbyists. This book presents fifteen technical papers that describe each team's driverless vehicle, race strategy, and insights. As a whole, they present the state of the art in autonomous vehicle technology and offer a glimpse of future technology for tomorrow's driverless cars. **Automotive Mechatronics Automotive Networking, Driving Stability Systems, Electronics** Springer As the complexity of automotive vehicles increases this book presents operational and practical issues of automotive mechatronics. It is a comprehensive introduction to controlled automotive systems and provides detailed information of sensors for travel, angle, engine speed, vehicle speed, acceleration, pressure, temperature, flow, gas concentration etc. The measurement principles of the different sensor groups are explained and examples to show the measurement principles applied in different types. **Build To Order The Road to the 5-Day Car** Springer Science & Business Media Over the past 100 years the European Automotive Industry has been repeatedly challenged by best practice. First by the United States, through the development of 'mass production' pioneered by Henry Ford and more recently by 'lean production techniques' as practised by the leading Japanese producers, particularly Toyota. It has consistently risen to these challenges and has shown it can compete and even outperform its competitors with world-class products. However, the European industry is now faced with growing competition and growth from new emerging low-cost countries and needs to re-define its competitive advantage to remain at the forefront of the sector. Automotive growth is driven by two factors, new markets and new technologies. Global competition is increasing, with technology and product differentiation becoming the most important sales factors, but with continued cost pressure. Within the market the winners will be more profitable and the losers will disappear. The Automotive Industry makes a significant contribution to the socio-economic fabric of the European Union. Manufacturing output represents €700 billion and research and development spending €24 billion. European automotive suppliers number 5000 member companies and represent 5 million employees and generate €500 billion in revenues. These are significant figures that generate wealth and high value employment within the EU. European firms must consistently improve their competitive position to ensure that the industry does not migrate to growing new markets. **Automotive Development Processes Processes for Successful Customer Oriented Vehicle Development** Springer Science & Business Media The global crisis the automotive industry has slipped into over the second half of 2008 has set a fierce spotlight not only on which cars are the right ones to bring to the market but also on how these cars are developed. Be it OEMs developing new models, suppliers integrating themselves deeper into the development processes of different OEMs, analysts estimating economical risks and opportunities of automotive investments, or even governments creating and evaluating scenarios for financial aid for suffering automotive companies: At the end of the day, it is absolutely indispensable to comprehensively understand the processes of automotive development - the core subject of this book. Let's face it: More than a century after Carl Benz, Wilhelm Maybach and Gottlieb Daimler developed and produced their first motor vehicles, the overall concept of passenger cars has not changed much. Even though components have been considerably optimized since then, motor cars in the 21st century are still driven by combustion engines that transmit their propulsive power to the road surface via gearboxes, transmission shafts and wheels, which together with spring-damper units allow driving stability and ride comfort. Vehicles are still navigated by means of a steering wheel that turns the front wheels, and the required control elements are still located on a dashboard in front of the driver who operates the car sitting in a seat. **Automotive Engineering e-Mega Reference** Butterworth-Heinemann This one-stop Mega Reference eBook brings together the essential professional reference content from leading international contributors in the automotive field. An expansion of the Automotive Engineering print edition, this fully searchable electronic reference book of 2500 pages delivers content to meet all the main information needs of engineers working in vehicle design and development. Material ranges from basic to advanced topics from engines and transmissions to vehicle dynamics and modelling. \* A fully searchable Mega Reference Ebook, providing all the essential material needed by Automotive Engineers on a day-to-day basis. \* Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference. \* Over 2,500 pages of reference material, including over 1,500 pages not included in the print edition **Frame #107** Frame Pub Frame: The Great Indoors is a bi-monthly international trade journal devoted to the design of interiors and products. Frame offers a stunning selection of interior designs created for shops, offices, exhibitions, residences, and hospitality venues. The magazine has the look, feel, and heft of a book. Frame packs the most interesting work from around the globe into six tactile issues a year. Visually focused, the magazine offers well-written articles illustrated with many photos, drawings, and sketches. A great deal of energy goes into finding, analyzing, and presenting the story behind each design published--and into communicating the message in everyday, easy-to-understand English. Loaded with only the best in contemporary design, Frame is an indispensable reference for professional interior designers, as well as for those involved in other creative pursuits. What readers find in each issue of Frame: **Visions:** From the Drawing Board Interior designs for the future, including projects that may or may not be realized **Skills:** Portfolio of Places Concise reports on newly completed interiors worldwide, from Tokyo hair salons to the latest bars in London and New York. **Features:** Projects in Perspective In-depth articles on recently created interiors and their designers. **Goods:** Material Matters A section completely dedicated to the latest in product design, from furniture and lamps to display systems and cutting-edge fabrics. **Mobile Computing, Applications, and Services 5th International Conference, MobiCase 2013, Paris, France, November 7-8, 2013, Revised Selected Papers** Springer This book constitutes the thoroughly refereed post-conference proceedings of the 5th International Conference on Mobile Computing, Applications, and Services (MobiCASE 2013) held in Paris, France, in November 2013. The 13 full, 5 short and 9 poster papers were carefully reviewed and selected from 64 submissions, and are presented together with 3 papers from the Workshop on Near Field Communication for Mobile Applications (NFS). The conference papers are covering mobile applications development, mobile social networking, novel user experience and interfaces, mobile services and platforms such as Android, iOS, BlackBerry OS, Windows phone, Bada, mobile software engineering and mobile Web, mobile payments and M2M infrastructure, mobile services such as novel hardware add-ons, energy aware services or tools, NFC-based services, authentication services. **Embedded Security in Cars Securing Current and Future Automotive IT Applications** Springer Science & Business Media Most innovations in the car industry are based on software and electronics, and IT will soon constitute the major production cost factor. It seems almost certain that embedded IT security will be crucial for the next generation of applications. Yet whereas software safety has become a relatively well-established field, the protection of automotive IT systems against manipulation or intrusion has only recently started to emerge. Lemke, Paar, and Wolf collect in this volume a state-of-the-art overview on all aspects relevant for IT security in automotive applications. After an introductory chapter written by the editors themselves, the contributions from experienced experts of different disciplines are structured into three parts. "Security in the Automotive Domain" describes applications for which IT security is crucial, like immobilizers, tachographs, and software updates. "Embedded Security Technologies" details security technologies relevant for automotive applications, e.g., symmetric and asymmetric cryptography, and wireless security. "Business Aspects of IT Systems in Cars" shows the need for embedded security in novel applications like location-based navigation systems and personalization. The first book in this area of fast-growing economic and scientific importance, it is indispensable for both researchers in software or embedded security and professionals in the automotive industry. **Simulation and Testing for Vehicle Technology 7th Conference, Berlin, May 12-13, 2016** Springer The book includes contributions on the latest model-based methods for the development of personal and commercial vehicle control devices. The main topics treated are: application of simulation and model design to development of driver assistance systems; physical and database model design for engines, motors, powertrain, undercarriage and the whole vehicle; new simulation tools, methods and optimization processes; applications of simulation in function and software development; function and software testing using HiL, MiL and SiL simulation; application of simulation and optimization in application of control devices; automation approaches at all stages of the development process. **A Practical Guide to Video and Audio Compression From Sprockets and Rasters to Macro Blocks** CRC Press Learn all about Codecs--how they work, as well as design and implementation with this comprehensive, easy-to-use guide to compression. After reading this book, you will be able to prepare and distribute professional audio and video on any platform including streamed to the web, broadcast on-air, stored in PVRs, Burned onto CD-ROMs or DVDs, delivered by broadband, or viewed in Kiosk applications, PDA devices, and mobile phones. **Biophysics Searching for Principles** Princeton University Press Interactions between the fields of physics and biology reach back over a century, and some of the most significant developments in biology--from the discovery of DNA's structure to imaging of the human brain--have involved collaboration across this disciplinary boundary. For a new generation of physicists, the phenomena of life pose exciting challenges to physics itself, and biophysics has emerged as an important subfield of this discipline. Here, William Bialek provides the first graduate-level introduction to biophysics aimed at physics students. Bialek begins by exploring how photon counting in vision offers important lessons about the opportunities for quantitative, physics-style experiments on diverse biological phenomena. He draws from these lessons three general physical principles--the importance of noise, the need to understand the extraordinary performance of living systems without appealing to finely tuned parameters, and the critical role of the representation and flow of information in the business of life. Bialek then applies these principles to a broad range of phenomena, including the control of gene expression, perception and memory, protein folding, the mechanics of the inner ear, the dynamics of biochemical reactions, and pattern formation in developing embryos. Featuring numerous problems and exercises throughout, Biophysics emphasizes the unifying power of abstract physical principles to motivate new and novel experiments on biological systems. Covers a range of biological phenomena from the physicist's perspective Features 200 problems Draws on statistical mechanics, quantum mechanics, and related mathematical concepts Includes an annotated bibliography and detailed appendixes Instructor's manual (available only to teachers) **Advances in Product Family and Product Platform Design Methods & Applications** Springer Science & Business Media Advances in Product Family and Product Platform Design: Methods & Applications highlights recent advances that have been made to support product family and product platform design along with successful applications in industry. This book provides not only motivation for product family and product platform design (i.e., address questions about "why and when should we platform") but also methods and tools to support the design and development of families of products based on shared platforms (i.e. address the "how" and "what" questions about platforming). It begins with a general overview of product family design to introduce the general reader to the topic and then progress to more advanced topics and design theory to help designers, engineers, and project managers plan, architect, and implement platform-based product development strategies for their company. Finally, successful industry applications provide readers and practitioners with case studies and "talking points" to become platform advocates and leaders within their organization. **OECD Digital Economy Outlook 2017** OECD Publishing The OECD Digital Economy Outlook examines and documents the evolutions and emerging opportunities and challenges in the digital economy. It highlights how OECD countries and partner economies are taking advantage of ICTs and the Internet to meet their public policy objectives. **Recent Evolutions and Perspectives in Olympic Winter Sports Performance: to PyeongChang and Beyond...** Frontiers Media SA An evidence-based scientific understanding of factors determining Olympic winter sports performance, recent changes, the evolution in training content and methods, the improvement in technology as well as the occurrence of injury and illness is required. On one hand, this would provide the opportunity to translate research to practice. On the other hand, to guide the practice of Olympic winter sports with the ultimate goal of improving the performance. Certainly, the continued evolution of Olympic winter sports has contributed to an enormous accumulation of knowledge, evidence, and relevant training technologies. Sports sciences, including physiology, conditioning, nutrition, biomechanics, coaching, psychology, as well as sport technology, history and social sciences, have much to contribute to the preparation of the athletes in the Olympic winter sports. Consequently, this Research Topic sought to provide a platform of contributions to set out a comprehensive framework of the components that should be addressed when developing training plans leading to elite Olympic winter sports performance. Overall, the papers were all directed toward a better understanding of physiological, biomechanical, and training factors related to different Olympic winter sports disciplines: cross-country skiing, alpine skiing, biathlon, Nordic combined, speed skating, snowboarding, and ski-cross. **How and Why to Read and Create Children's Digital Books A Guide for Primary Practitioners** UCL Press How and Why to Read and Create Children's Digital Books outlines effective ways of using digital books in early years and primary classrooms, and specifies the educational potential of using digital books and apps in physical spaces and virtual communities. With a particular focus on apps and personalised reading, Natalia Kucirkova combines theory and practice to argue that personalised reading is only truly personalised when it is created or co-created by reading communities. Divided into two parts, Part I suggests criteria to evaluate the educational quality of digital books and practical strategies for their use in the classroom. Specific attention is paid to the ways in which digital books can support individual children's strengths and difficulties, digital literacies, language and communication skills. Part II explores digital books created by children, their caregivers, teachers and librarians, and Kucirkova also offers insights into how smart toys, tangibles and augmented/virtual reality tools can enrich children's reading for pleasure. How and Why to Read and Create Children's Digital Books is of interest to an international readership ranging from trainee or established teachers to MA level students and researchers, as well as designers, librarians and publishers. All are inspired to approach children's reading on and with screens with an agentic perspective of creating and sharing. Praise for How and Why to Read and Create Children's Digital Books 'This is an exciting and innovative book - not least because it is freely available to read online but because its origins are in primary practice. The author is an accomplished storyteller, and whether you know, as yet, little about the value of digital literacy in the storymaking process, or you are an accomplished digital player, this book is full of evidence-informed ideas, explanations and inspiration.' Liz Chamberlain, Open University 'At a time when children's reading is increasingly on-screen, many teachers, parents and carers are seeking practical, straightforward guidance on how to support children's engagement with digital books. This volume, written by the leading expert on personalised e-books, is packed with app reviews, suggestions and insights from recent international

research, all underpinned by careful analysis of digital book features and recognition of reading as a social and cultural practice. Providing accessible guidance on finding, choosing, sharing and creating digital books, it will be welcomed by those excited by the possibilities of enthusing children about reading in the digital age.' Cathy Burnett, Professor of Literacy and Education, Sheffield Hallam University

**Springer Handbook of Medical Technology** Springer Science & Business Media This concise, user-oriented and up-to-date desk reference offers a broad introduction to the fascinating world of medical technology, fully considering today's progress and further development in all relevant fields. The Springer Handbook of Medical Technology is a systemized and well-structured guideline which distinguishes itself through simplification and condensation of complex facts. This book is an indispensable resource for professionals working directly or indirectly with medical systems and appliances every day. It is also meant for graduate and post graduate students in hospital management, medical engineering, and medical physics.

**Green Biocomposites Design and Applications** Springer This book introduces the concept, design and application of green biocomposites, with a specific focus on the current demand for green biocomposites for automotive and aerospace components. It discusses the mathematical background, innovative approaches to physical modelling, analysis and design techniques. Including numerous illustrations, tables, case studies and exercises, the text summarises current research in the field. It is a valuable reference resource for researchers, students and scientists working in the field of materials science.

**Fashion-able Hacktivism and Engaged Fashion**

**Design Evolutionary Computing and Mobile Sustainable Networks Proceedings of ICECMSN 2020** Springer Nature This book features selected research papers presented at the International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2020), held at the Sir M. Visvesvaraya Institute of Technology on 20-21 February 2020. Discussing advances in evolutionary computing technologies, including swarm intelligence algorithms and other evolutionary algorithm paradigms which are emerging as widely accepted descriptors for mobile sustainable networks virtualization, optimization and automation, this book is a valuable resource for researchers in the field of evolutionary computing and mobile sustainable networks.

**Automotive User Interfaces Creating Interactive Experiences in the Car** Springer This book focuses on automotive user interfaces for in-vehicle usage, looking at car electronics, its software of hidden technologies (e.g., ASP, ESP), comfort functions (e.g., navigation, communication, entertainment) and driver assistance (e.g., distance checking). The increased complexity of automotive user interfaces, driven by the need for using consumer electronic devices in cars as well as autonomous driving, has sparked a plethora of new research within this field of study. Covering a broad spectrum of detailed topics, the authors of this edited volume offer an outstanding overview of the current state of the art; providing deep insights into usability and user experience, interaction techniques and technologies as well as methods, tools and its applications, exploring the increasing importance of Human-Computer-Interaction (HCI) within the automotive industry Automotive User Interfaces is intended as an authoritative and valuable resource for professional practitioners and researchers alike, as well as computer science and engineering students who are interested in automotive interfaces.

**Principles and Methods in Landscape Ecology Towards a Science of the Landscape** Springer Science & Business Media Landscape ecology is an integrative and multi-disciplinary science and Principles and Methods in Landscape Ecology reconciles the geological, botanical, zoological and human perspectives. In particular, new paradigms and theories such as percolation, metapopulation, hierarchies, source-sink models have been integrated in this last edition with the recent theories on bio-complexity, information and cognitive sciences. Methods for studying landscape ecology are covered including spatial geometry models and remote sensing in order to create confidence toward techniques and approaches that require a high experience and long-time dedication. Principles and Methods in Landscape Ecology is a textbook useful to present the landscape in a multi-vision perspective for undergraduate and graduate students of biology, ecology, geography, forestry, agronomy, landscape architecture and planning. Sociology, economics, history, archaeology, anthropology, ecological psychology are some sciences that can benefit of the holistic vision offered by this textbook.

**Advanced Engineering Mathematics I.** K. International Pvt Ltd The text has been divided in two volumes: Volume I (Ch. 1-13) & Volume II (Ch. 14-22). In addition to the review material and some basic topics as discussed in the opening chapter, the main text in Volume I covers topics on infinite series, differential and integral calculus, matrices, vector calculus, ordinary differential equations, special functions and Laplace transforms. Volume II covers topics on complex analysis, Fourier analysis, partial differential equations and statistics. The present book has numerous distinguishing features over the already existing books on the same topic. The chapters have been planned to create interest among the readers to study and apply the mathematical tools. The subject has been presented in a very lucid and precise manner with a wide variety of examples and exercises, which would eventually help the reader for hassle free study.

**Principles of Marine Bioacoustics** Springer Science & Business Media Humans have always been fascinated by marine life, from extremely small diatoms to the largest mammal that inhabits our planet, the blue whale. However, studying marine life in the ocean is an extremely difficult proposition because an ocean environment is not only vast but also opaque to most instruments and can be a hostile environment in which to perform experiments and research. The use of acoustics is one way to effectively study animal life in the ocean. Acoustic energy propagates in water more efficiently than almost any form of energy and can be utilized by animals for a variety of purposes and also by scientists interested in studying their behavior and natural history. However, underwater acoustics have traditionally been in the domain of physicists, engineers and mathematicians. Studying the natural history of animals is in the domain of biologists and physiologists. Understanding behavior of animals has traditionally involved psychologists and zoologists. In short, marine bioacoustics is and will continue to be a diverse discipline involving investigators from a variety of backgrounds, with very different knowledge and skill sets. The inherent inter-disciplinary nature of marine bioacoustics presents a large challenge in writing a single text that would be meaningful to various investigators and students interested in this field. Yet we have embarked on this challenge to produce a volume that would be helpful to not only beginning investigators but to seasoned researchers.

**IP Design for Mobile Networks** Pearson Education As the cellular world and the Internet converge, mobile networks are transitioning from circuit to packet and the Internet Protocol (IP) is now recognized as the fundamental building block for all next-generation communication networks. The all-IP vision provides the flexibility to deliver cost-effective services and applications that meet the evolving needs of mobile users. RF engineers, mobile network designers, and system architects will be expected to have an understanding of IP fundamentals and how their role in delivering the end-to-end system is crucial for delivering the all-IP vision that makes the Internet accessible anytime, anywhere. IP Design for Mobile Networks discusses proper IP design theory to effectively plan and implement your next-generation mobile network so that IP integrates all aspects of the network. The book outlines, from both a standards and a design theory perspective, both the current and target state of mobile networks, and the technology enablers that will assist the migration. This IP transition begins with function-specific migrations of specific network domains and ends with an end-to-end IP network for radio, transport, and service delivery. The book introduces many concepts to give you exposure to the key technology trends and decision points affecting today's mobile operators. The book is divided into three parts: Part I provides an overview of how IP is being integrated into mobile systems, including radio systems and cellular networks. Part II provides an overview of IP, the technologies used for transport and connectivity of today's cellular networks, and how the mobile core is evolving to encompass IP technologies. Part III provides an overview of the end-to-end services network based on IP, including context awareness and services. Presents an overview of what mobile networks look like today—including protocols used, transport technologies, and how IP is being used for specific functions in mobile networks Provides an all-inclusive reference manual for IP design theory as related to the broader application of IP for mobile networks Imparts a view of upcoming trends in mobility standards to better prepare a network evolution plan for IP-based mobile networks This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers. [ciscopress.com](http://ciscopress.com)

**Creating Autonomous Vehicle Systems** Morgan & Claypool Publishers This book is the first technical overview of autonomous vehicles written for a general computing and engineering audience. The authors share their practical experiences of creating autonomous vehicle systems. These systems are complex, consisting of three major subsystems: (1) algorithms for localization, perception, and planning and control; (2) client systems, such as the robotics operating system and hardware platform; and (3) the cloud platform, which includes data storage, simulation, high-definition (HD) mapping, and deep learning model training. The algorithm subsystem extracts meaningful information from sensor raw data to understand its environment and make decisions about its actions. The client subsystem integrates these algorithms to meet real-time and reliability requirements. The cloud platform provides offline computing and storage capabilities for autonomous vehicles. Using the cloud platform, we are able to test new algorithms and update the HD map—plus, train better recognition, tracking, and decision models. This book consists of nine chapters. Chapter 1 provides an overview of autonomous vehicle systems; Chapter 2 focuses on localization technologies; Chapter 3 discusses traditional techniques used for perception; Chapter 4 discusses deep learning based techniques for perception; Chapter 5 introduces the planning and control sub-system, especially prediction and routing technologies; Chapter 6 focuses on motion planning and feedback control of the planning and control subsystem; Chapter 7 introduces reinforcement learning-based planning and control; Chapter 8 delves into the details of client systems design; and Chapter 9 provides the details of cloud platforms for autonomous driving. This book should be useful to students, researchers, and practitioners alike. Whether you are an undergraduate or a graduate student interested in autonomous driving, you will find herein a comprehensive overview of the whole autonomous vehicle technology stack. If you are an autonomous driving practitioner, the many practical techniques introduced in this book will be of interest to you. Researchers will also find plenty of references for an effective, deeper exploration of the various technologies.

**Bluetooth Security** Artech House 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

**Scars, Marks & Tattoos** I have physical scars from past surgeries, however, I have emotional scars as well. They were buried deep inside (hidden). It wasn't until my mother died was I able to "catch my breath" and to make sense of or process the emotional pain I had endured due to her prescription drug addiction, resulting in my own addictions.

**NFPA 101 Life Safety Code 2018**