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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.

Receive comprehensive instruction on the fundamentals of wireless security from three leading international voices in the field Security in Wireless Communication Networks delivers a thorough grounding in wireless communication security. The distinguished authors pay particular attention to wireless specific issues, like authentication protocols for various wireless communication networks, encryption algorithms and integrity schemes on radio channels, lessons learned from designing secure wireless systems and standardization for security in wireless systems. The book addresses how engineers, administrators, and others involved in the design and maintenance of wireless networks can achieve security while retaining the broadcast nature of the system, with all of its inherent harshness and interference. Readers will learn: A comprehensive introduction to the background of wireless communication network security, including a broad overview of wireless communication networks, security services, the mathematics crucial to the subject, and cryptographic techniques An exploration of wireless local area network security, including Bluetooth security, Wi-Fi security, and body area network security An examination of wide area wireless network security, including treatments of 2G, 3G, and 4G Discussions of future development in wireless security, including 5G, and vehicular ad-hoc network security Perfect for undergraduate and graduate students in programs related to wireless communication, Security in Wireless Communication Networks will also earn a place in the libraries of professors, researchers, scientists, engineers, industry managers, consultants, and members of government security agencies who seek to improve their understanding of wireless security protocols and practices.

Get the most out of your iPhone X Apple's iPhone X represents such a radical departure from all previous models of the globally known iPhone that it needs its own book to help users navigate the new features. Luckily, iPhone X For Dummies is here to provide the guidance you need to figure out the features of your new iPhone and the software that powers it. Written by the experts who've created all previous editions of iPhone For Dummies, this book takes a deep dive into this fabulous new phone and its unique controls. It then delves into iOS 11 and how it works on the iPhone X. It leaves no stone unturned and offers all the in-depth coverage you need to make your iPhone X work for you—right out of the box! Control your iPhone X with iOS 11 gestures Explore advanced camera tools that produce stunning photos Set up face recognition to access your phone with a smile Charge your iPhone wirelessly If you've invested in this awesome new device, you deserve to get the very most out of it. And this book shows you how!

This publication covers different themes in the field of assistive technology. The theme New technologies will explore the significant advances in technology research & development and how these can be harnessed to benefit people with disabilities. This will include evolving technologies, affording interesting insights into the future. The theme User Centred Approach will look at fundamental ways in which the EU advocate a philosophy of citizenship and governance and how this philosophy can be advanced to ensure that people with disabilities become central to the assistive technology process Another issue that is explored in this publication is Interdisciplinary Approaches which can be developed within assistive technology and the provision of services to people with disabilities. Finally, it concentrates on ways in which practitioners and users, working together within assistive technology, can achieve best practice in the development and implementation of Guidelines and Standards across a broad spectrum.

Presents information using a BlackBerry, covering such topics as connecting to a PC, sending and receiving email, making and receiving calls, using Bluetooth, and using the address book.

Make your Treo smartphone live up to its name. Treo Essentials will show you how to get the most out of your Treo 600 or 650 smartphone without making you feel anything but smart. You already know the basics and this book will take you beyond them. You'll learn how to synchronize with a PC, launch applications while making a phone call, and take and share pictures. You'll find out how to use e-mail and instant messaging, and how to secure your Treo with passwords, work over virtual private networks and use anti-virus protection software. There's so much more to your Treo 600 or 650 smartphone than meets the eye. Let Treo Essentials help you uncover its mysteries! Explains how to use the portable electronic device to make and receive phone calls, set up iTunes and the iPod, take and organize photographs, send and receive e-mail and instant messages, browse the Internet, and play podcasts, music, video, and photograph slideshows.

This volume, RF and Microwave Applications and Systems, includes a wide range of articles that discuss RF and microwave systems used for communication and radar and heating applications. Commercial, avionics, medical, and military applications are addressed. An overview of commercial communications systems is provided. Past, current, and emerging cellular systems, navigation systems, and satellite-based systems are discussed. Specific voice and data commercial systems are investigated more thoroughly in individual chapters that follow. Detailed discussions of military electronics, avionics, and radar (both military and automotive) are provided in separate chapters. A chapter focusing on FR/microwave energy used for therapeutic medicine is also provided. Systems considerations including thermal, mechanical, reliability, power management, and safety are discussed in separate chapters. Engineering processes are also explored in articles about corporate initiatives, cost modeling, and design reviews. The book closes with a discussion of the underlying physics of electromagnetic propagation and interference. In addition to new chapters on WiMAX and broadband cable, nearly every existing chapter features extensive updates and several were completely rewritten to reflect the massive changes areas such as radio navigation and electronic warfare.

The full-color guide to getting the most out of your iPhone Completely updated and revised to include iOS 6, iCloud, and the latest iPhone 5 features, this full-color book is your guide to all things iPhone. Bestselling veteran authors Edward Baig and Bob "Dr. Mac" LeVitus introduce you to the capabilities of the iPhone for making phone calls, browsing the Internet, sending and receiving e-mails, working with the calendar, watching and recording HD videos, taking and editing great photos, and much more. You'll discover how to set up iTunes, buy music and videos, protect your information, troubleshoot, multitask, and download the hundreds of thousands of apps available from the App Store. Includes coverage of iPhone 5 and iPhone 4S as well as the older iPhone 4 model Gets you started with your iPhone, and introduces you to the multitouch interface, synching with iCloud, making phone and video calls, texting, working with the calendar, and more Explains setting up iTunes, watching your favorite movies and TV shows, taking stunning photos, and listening to your favorite music Helps you get organized with the calendar and Reminders features, keep on top of the latest news with Notification Center, and communicate with Siri, your voice-activated virtual assistant Walks you through connecting wirelessly, sending and receiving e-mails, making FaceTime video calls, getting directions from the all new Maps app, protecting your information, and troubleshooting Addresses the latest updates, iCloud, and new iOS 6 features that make your iPhone even more powerful and easy to use iPhone 5 For Dummies, 6th Edition is presented in the straightforward-

but-fun style that defines the series. It's just the book you need to get acquainted with your brand-new iPhone.

Unleash the powers of the Amazon Fire phone with help from technology guru Preston Gralla. Through clear instructions and savvy advice, this fast-paced, engaging guide shows you how to make the most of Fire phone's innovative features—including Firefly, Dynamic Perspective, one-handed gestures, and integration with Amazon Prime. The important stuff you need to know: Gain control with Dynamic Perspective. Tilt your phone to scroll, move your head to play games, and explore maps in 3D. Take pictures further. Capture high-res, panoramic, and moving (lenticular) photos. Shoot HD video, too. Shop with ease. Use Firefly to identify music, videos, and other items, and go straight to the product's Amazon page. Get the apps you want. Load up on games and apps for productivity, health and fitness, and social networking from Amazon's Appstore. Solve problems right away. Get live tech support from Amazon via video chat with the Mayday help feature. Carry the Cloud in your hand. Access Prime Instant Video, your Kindle library, and your uploaded photos and videos.

Straightforward advice on building and launching a mobile marketing plan Mobile communication is hot, and so is marketing on mobile devices. Mobile Marketing For Dummies provides a clear and easy path for creating, launching, and making the most of a mobile marketing program. Designed for marketing professionals and other business people who may have little experience with the medium, it explains mobile marketing and how to convert a traditional marketing plan to mobile. Topics include assembling resources and budget, creating a plan, following best practices, building mobile sites, and much more. Explains what mobile marketing is, how you can adapt a traditional marketing plan for mobile, and how to create and launch a mobile marketing plan from scratch Covers activating a plan using voice, text, e-mail, and social media campaigns Explores the nuts and bolts of building mobile sites, apps, monetizing mobile, and advertising on other mobile properties Mobile Marketing For Dummies gives you the tools to succeed in this exciting environment.

"The new era of powerful, mobile computing and sensing devices having ever larger memories and personal databases brings to light a number of difficult problems in software, interface design, search, organization of information, and methods for inferring context and for sharing personal content... The authors have done an admirable job at describing the problems and opportunities and, as such, this book should be on the shelves of researchers struggling to make these mobile devices truly valuable to the ever expanding number of their users."

—David G. Stork, Chief Scientist, Ricoh Innovations Personal Content Experience is a comprehensive introduction to mobile personal content.

The book introduces and explores issues such as context capture, user interfaces for continuous mobile use, UI design for mobile media applications, metadata magic, virtual communities, and ontologies. User interactions and behavioural patterns with personal content are also covered, resulting in a 'GEMS' lifecycle model for analysing media devices, services, applications, and user interfaces. In addition, the book describes an extensible software architecture targeted at content management in mobile devices, pointing out the essential topics that will benefit anyone developing mobile content-intensive applications and services. Personal Content Experience: Establishes a foundation for analyzing applications, services and user interfaces targeted at personal content. Provides a strong industrial insight, combining hands-on examples, application concepts and software architecture descriptions with theoretical frameworks and models. Offers a multi-disciplinary approach, considering both user perspective and technology aspects. This book is a clear and practical guide to the field of personal content and will be invaluable to practitioners in mobile industry and digital content management, media-intensive application developers, content creators and distributors, academic researchers, and lecturers in computer science and multimedia.

Fourth-Generation Wireless Networks: Applications and Innovations presents a comprehensive collection of recent findings in access technologies useful in the architecture of wireless networks.

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Technology is evolving faster than we are. As our mobile phones, mp3 players, cars, and digital cameras become more and more complex, we understand less and less about how they actually work and what personal details these gadgets might reveal about us. Robert Vamosi, an award-winning journalist and analyst who has been covering digital security issues for more than a decade, shows us the dark side of all that digital capability and convenience. Hotel-room TV remotes can be used to steal our account information and spy on what we've been watching, toll-booth transponders receive unencrypted EZ Pass or FasTrak info that can be stolen and cloned, and our cars monitor and store data about our driving habits that can be used in court against us. When Gadgets Betray Us gives us a glimpse into the secret lives of our gadgets and helps us to better understand -- and manage -- these very real risks.

"This multiple-volume publication advances the emergent field of mobile computing offering research on approaches, observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers"--Provided by publisher.

Treo EssentialsQue Publishing

Even a smartphone needs a smart user to take advantage of all of its brilliance--especially when that phone is as jam-packed with features as the Treo. To master all of the Treo's phone, email, Internet, photographic, and organizational capabilities, you need this pocket-sized guide! As the only Treo guide authorized by its maker (palmOne), this one goes way beyond the manual to demonstrate the tricks and techniques that aren't divulged anywhere else. With Treo in your hand and this guide at your side, you can work as you read, mastering one topic quickly and then moving on to the next. Each tip or technique takes just minutes to complete, which means you can use what you learn immediately and watch your skills improve every time you pick up your handheld. Use this guide just as you do your Treo itself--when you need it, to do precisely what you want with your smartest of tools!

It is estimated that, in the United States, around 20 percent of all Police-reported road crashes involve driver distraction as a contributing factor. This figure increases if other forms of inattention are considered. Evidence (reviewed in this volume) suggests that the situation is similar in other countries and that driver distraction and inattention are even more dangerous as contributing factors in crashes than drug and alcohol intoxication. Having a solid evidence-base from which to develop injury countermeasures is a cornerstone of road-safety management. This book adds to the accumulating evidence-base on driver distraction and inattention. With 24 chapters by 52 authors from more than 10 countries, it provides important new perspectives on the definition and meaning of driver distraction and inattention, the mechanisms that characterize them, the measurement of their effects, strategies for mitigating their effects, and recommendations for further research. The goal of this book is to inspire further research and countermeasure development to prevent and mitigate the potentially adverse effects of driver distraction and driver inattention, and, in doing so, to save lives.

This document provides info. to organizations on the security capabilities of Bluetooth and provide recommendations to organizations employing Bluetooth technologies on securing them effectively. It discusses Bluetooth technologies and security capabilities in technical detail. This document assumes that the readers have at least some operating system, wireless networking, and security knowledge. Because of the constantly changing nature of the wireless security industry and the threats and vulnerabilities to the technologies, readers are strongly encouraged to take advantage of other resources (including those listed in

this document) for more current and detailed information. Illustrations.

A comparative introduction to major global wireless standards, technologies and their applications From GSM to LTE-Advanced Pro and 5G: An Introduction to Mobile Networks and Mobile Broadband, 3rd Edition provides technical descriptions of the various wireless technologies currently in use. It explains the rationales behind their differing mechanisms and implementations while exploring the advantages and limitations of each technology. This edition has been fully updated and substantially expanded to reflect the significant evolution in mobile network technology occurring over the past several years. The chapter on LTE has been extensively enhanced with new coverage of current implementations of LTE carrier aggregation, mobility management, cell reselection and handover procedures, as well as the latest developments in 5G radio and core networks in 3GPP. It now features additional information on the TD-LTE air interface, IPv6 in mobile networks, Network Function Virtualization (NFV) and Narrowband Internet of Things (NB-IOT). Voice-over-LTE (VoLTE) is now treated extensively in a separate chapter featuring coverage of the VoLTE call establishment process, dedicated bearer setup, header compression, speech codec and bandwidth negotiation, supplementary service configuration and VoLTE emergency calls. In addition, extensive coverage of Voice-over-Wifi and mission critical communication for public safety organizations over LTE has been added. The WLAN chapter now provides coverage of WPA2-Professional with certificates for authentication in large deployments, such as the global Eduroam network and the new WLAN 60 GHz air interface. Bluetooth evolution has been addressed by including a detailed description of Bluetooth Low Energy (BLE) in the chapter devoted to Bluetooth. Describes the different systems based on the standards, their practical implementation and design assumptions, and the performance and capacity of each system in practice is analyzed and explained Questions at the end of each chapter and answers on the accompanying website make this book ideal for self-study or as course material.

Many wireless systems like GSM, GPRS, UMTS, Bluetooth, WLAN or WiMAX offer possibilities to keep people connected while on the move. In this flood of technology and claims that one single resource will serve all our needs, this book seeks to enable readers to examine and understand each technology, and how to utilise several different systems for the best results.

Communication Systems for the Mobile Information Society not only contains a technical description of the different wireless systems available today, but also explains the thoughts that are behind the different mechanisms and implementations; not only the 'how' but also the 'why' is in focus. Thus the advantages and also limitations of each technology become apparent. Provides readers with a solid introduction to major global wireless standards and compares the different wireless technologies and their applications Describes the different systems based on the standards, their practical implementation and the design assumptions that were made The performance and capacity of each system in practice is analyzed and explained, accompanied with practical tips on how to discover the functionality of different networks by the readers themselves Questions at the end of each chapter and answers on the accompanying website make this book ideal for self study or as course material Illustrated with many realistic examples of how mobile people can stay in touch with other people, the Internet and their corporate intranet This book is an essential resource for telecommunication engineers, professionals and computer science and electrical engineering students who want to get a thorough end-to-end understanding of the different technical concepts of the systems on the market today.

Fun projects and valuable content join forces to enable readers to turn their wireless home network into a high-performance wireless infrastructure capable of entertainment networking and even home automation Step-by-step instructions help readers find, buy, and install the latest and greatest wireless equipment The authors are home tech gurus and offer detailed discussion on the next-generation wireless gear that will move the wireless LAN beyond computers and into telephony, entertainment, home automation/control, and even automotive networking The number of wireless LAN users in North America is expected to grow from 4.2 million current users to more than 31 million by 2007

By 1990 the wireless revolution had begun. In late 2000, Mike Golio gave the world a significant tool to use in this revolution: The RF and Microwave Handbook. Since then, wireless technology spread across the globe with unprecedented speed, fueled by 3G and 4G mobile technology and the proliferation of wireless LANs. Updated to reflect this tremendous growth, the second edition of this widely embraced, bestselling handbook divides its coverage conveniently into a set of three books, each focused on a particular aspect of the technology. Six new chapters cover WiMAX, broadband cable, bit error ratio (BER) testing, high-power PAs (power amplifiers), heterojunction bipolar transistors (HBTs), as well as an overview of microwave engineering. Over 100 contributors, with diverse backgrounds in academic, industrial, government, manufacturing, design, and research reflect the breadth and depth of the field. This eclectic mix of contributors ensures that the coverage balances fundamental technical issues with the important business and marketing constraints that define commercial RF and microwave engineering. Focused chapters filled with formulas, charts, graphs, diagrams, and tables make the information easy to locate and apply to practical cases. The new format, three tightly focused volumes, provides not only increased information but also ease of use. You can find the information you need quickly, without wading through material you don't immediately need, giving you access to the caliber of data you have come to expect in a much more user-friendly format.

The "Encyclopedia of Mobile Computing and Commerce" presents current trends in mobile computing and their commercial applications. Hundreds of internationally renowned scholars and practitioners have written comprehensive articles exploring such topics as location and context awareness, mobile networks, mobile services, the socio impact of mobile technology, and mobile software engineering.

"Get the most out of your Treo 700w smartphone using Windows Mobile software with this handy pocket guide full of time-saving tips and techniques."--Cover.

Wireless home networks are better than ever! The emergence of new industry standards has made them easier, more convenient, less expensive to own and operate. Still, you need to know what to look for (and look out for), and the expert guidance you'll find in Wireless Home Networks For Dummies, 3rd Edition helps you ensure that your wire-free life is also a hassle-free life! This user-friendly, plain-English guide delivers all of the tips, tricks, and knowledge you need to plan your wireless home network, evaluate and select the equipment that will work best for you, install and configure your wireless network, and much more. You'll find out how to share your Internet connection over your network, as well as files, printers, and other peripherals. And, you'll learn how to avoid the "gotchas" that can creep in when you least expect them. Discover how to: Choose the right networking equipment Install and configure your wireless network Integrate Bluetooth into your network Work with servers, gateways, routers, and switches Connect audiovisual equipment to your wireless network Play wireless, multiuser computer games Establish and maintain your network's security Troubleshoot networking problems Improve network performance Understand 802.11n Whether you're

working with Windows PCs, Mac OS X machines, or both *Wireless Home Networking For Dummies*, 3rd Edition, makes it fast and easy to get your wireless network up and running—and keep it that way!

Thinking about a knockout audio system for your car? Not sure what you need, want, or can afford? *Car Audio For Dummies* is a great place to find some answers! But wait — what if speakers that vibrate your floorboards don't turn you on? What if you're thinking more about hands-free phone access and a DVD player to entertain the kids? Surprise! *Car Audio For Dummies* can give you a hand there, too. Whether you want to feel as if your favorite band is performing right on top of your dashboard or you want to keep the soccer team entertained on the way to the tournament, this friendly guide can help. From planning your system and buying components to getting them installed and protecting your investment, you'll find plenty of wise advice. Get the scoop on: Figuring out what kind of equipment you need to do what you want Identifying good sound quality when you hear it Adding components to a factory system Choosing a video player, hands-free phone system, amplifiers, speakers, and more Finding a reliable installer (today's automotive electronics systems are so complex that you probably won't want to go it alone) Understanding warranties and returns Protecting and insuring your system *Car Audio For Dummies* is sort of like that knowledgeable friend you want to take along when you tackle a project like this. Sounds like a good idea, doesn't it?

Explains how to use the portable device, from activating the iPhone to managing its multi-touch and voice-recognition interfaces to iPhone security, including syncing the phone with iCloud, managing contacts, and organizing multimedia.

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- *PM* is the ultimate guide to our high-tech lifestyle.

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

Everyone's doing it — Web marketing, that is. Building an online presence is vital to your business, and if you're looking for Web marketing real-world experiences, look no farther than *Web Marketing All-in-One For Dummies*. These eight minibooks break down Web marketing into understandable chunks, with lots of examples from an author team of experts. The minibooks cover: Establishing a Web Presence Search Engine Optimization Web Analytics E-Mail Marketing Blogging and Podcasting Social Media Marketing Online Advertising & Pay-Per-Click Mobile Web Marketing *Web Marketing All-in-One For Dummies* shows you how to please both customers and search engines; track your performance; market with e-mail, blogs, and social media; and more. It's a one-stop guide to Maximizing Internet potential for your business and ranking high in searches Tracking how your ads, pages, and products perform Managing pay-per-click ads, keywords, and budget, and developing marketing e-mails that customers actually want to read Creating a blog or podcast that helps you connect with clients Using social media outlets including StumbleUpon, Facebook, and Twitter Leveraging mobile technology Generating traffic to your site and writing ads that get clicks Not only that, but *Web Marketing All-in-One For Dummies* includes a Google AdWords redeemable coupon worth \$25 to get you started! Begin developing your Web site strategy and start marketing your business online today.

Bluetooth Low Energy (LE) is one of the latest enhancement to Bluetooth technology and, as the name suggests, it is aimed at ultra low power devices, such as heart rate monitors, thermometers, and laboratory sensors. Due to very low power consumption, devices compliant with this standard can operate for months or even years on coin cell batteries without the need for recharging. This cutting-edge book helps you understand the whats, whys, and hows of Bluetooth LE. It includes a broad view of the technology, identifies the various building blocks and explains how they come together. The book explains the architecture of Bluetooth LE stack and the functionality provided by each of the layers. You find expert guidance in setting up your own system in a quick and efficient manner with inexpensive, easily available hardware and just a couple of PCs running Linux. Additionally, this practical volume features exercises and sample programs to help you get a first-hand feel for how the technology works.

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

The *Using* series is not just a book, it is highly integrated with online video, podcasts, and additional bonus content that enables our authors to provide modern, best of class instruction to the beginning audience. *Using* books are designed to offer a solid and accessible introduction—both tutorial and reference—to a topic. The *Using* series is written in a succinct yet friendly manner and offers real-world advice and step by step tasks. *Using the iPhone* takes readers through all the necessary configurations to properly set up their iPhone such as to use multiple networks, send and receive email and text messages, sync to their iTunes, and more. Beyond basic configuration, *Using the iPhone* explains how to use the default applications that are part of the iPhone as well as how to find and install new apps from the App Store, how to purchase music, movies, and more through iTunes and sync them to the iPhone, and how to troubleshoot and maintain their iPhone. All along the way the reader is offered audio and video to illustrate more difficult or confusing tasks, or to add additional content to a topic. Most introductory books about computers are long, detailed technical books such as those used in a computer science course or else tutorials that provide instructions on how to operate a computer with little description of what happens inside the machine. This book fits in the large gap between these two extremes. It is for people who would like to understand how computers work, without having to learn a lot of technical details. Only the most important things about computers are covered. There is no math except some simple arithmetic. The only prerequisite is knowing how to use a web browser. As an alternative or adjunct to reading the book, you can watch a series of short videos by

going to youtube.com and searching for "Understanding Computers, Smartphones and the Internet". Only current day technology is covered. People who are interested in learning about how computers evolved from the earliest machines can read the companion book "A Concise History of Computers, Smartphones and the Internet". While originally intended for people who are not in the computer field, this book is also useful for those taking a coding course or an introductory computer science course. Even people already in the computer field will find things of interest in this book.

Penetrates the human computer interaction (HCI) field with breadth and depth of comprehensive research.

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