

Smart Card Handbook 4th Edition

The vast majority of modern criminal investigations involve some element of digital evidence, from mobile phones, computers, CCTV and other devices. Digital Forensics: Digital Evidence in Criminal Investigations provides the reader with a better understanding of how digital evidence complements “traditional” scientific evidence and examines how it can be used more effectively and efficiently in a range of investigations. Taking a new approach to the topic, this book presents digital evidence as an adjunct to other types of evidence and discusses how it can be deployed effectively in support of investigations. The book provides investigators/SSMs/other managers with sufficient contextual and technical information to be able to make more effective use of digital evidence sources in support of a range of investigations. In particular, it considers the roles played by digital devices in society and hence in criminal activities. From this, it examines the role and nature of evidential data which may be recoverable from a range of devices, considering issues relating to reliability and usefulness of those data. Includes worked case examples, test questions and review quizzes to enhance student understanding Solutions provided in an accompanying website Includes numerous case studies throughout to highlight how digital evidence is handled at the crime scene and what can happen when procedures are carried out incorrectly Considers digital evidence in a broader context alongside other scientific evidence Discusses the role of digital devices in criminal activities and provides methods for the evaluation and prioritizing of evidence sources Includes discussion of the issues surrounding modern digital evidence examinations, for example; volume of material and its complexity Clear overview of all types of digital evidence Digital Forensics: Digital Evidence in Criminal Investigations is an invaluable text for undergraduate students taking either general forensic science courses where digital forensics may be a module or a dedicated computer/digital forensics degree course. The book is also a useful overview of the subject for postgraduate students and forensic practitioners. The discipline of technology management focuses on the scientific, engineering, and management issues related to the commercial introduction of new technologies. Although more than thirty U.S. universities offer PhD programs in the subject, there has never been a single comprehensive resource dedicated to technology management. "The Handbook of Technology Management" fills that gap with coverage of all the core topics and applications in the field. Edited by the renowned Doctor Hossein Bidgoli, the three volumes here include all the basics for students, educators, and practitioners

As industries are rapidly being digitalized and information is being more heavily stored and transmitted online, the security of information has become a top priority in securing the use of online networks as a safe and effective platform. With the vast and diverse potential of artificial intelligence (AI) applications, it has become easier than ever to identify cyber vulnerabilities, potential threats, and the identification of solutions to these unique problems. The latest tools and technologies for AI applications have untapped potential that conventional systems and human security systems cannot meet, leading AI to be a frontrunner in the fight against malware, cyber-attacks, and various security issues. However, even with the tremendous progress AI has made within the sphere of security, it's important to understand the impacts, implications, and critical issues and challenges of AI applications along with the many benefits and emerging trends in this essential field of security-based research. Research Anthology on Artificial Intelligence Applications in Security seeks to address the fundamental advancements and technologies being used in AI applications for the security of digital data and information. The included chapters cover a wide range of topics related to AI in security stemming from the development and design of these applications, the latest tools and technologies, as well as the utilization of AI and what challenges and impacts have been discovered along the way. This resource work is a critical exploration of the latest research on security and an overview of how

AI has impacted the field and will continue to advance as an essential tool for security, safety, and privacy online. This book is ideally intended for cyber security analysts, computer engineers, IT specialists, practitioners, stakeholders, researchers, academicians, and students interested in AI applications in the realm of security research.

This book constitutes the refereed proceedings of the Third International Workshop on Fault Diagnosis and Tolerance in Cryptography, FDTC 2006, held in Yokohama, Japan in October 2006. The 12 revised papers of FDTC 2006 are presented together with nine papers from FDTC 2004 and FDTC 2005 that passed a second round of reviewing. They all provide a comprehensive introduction to the issues faced by designers of robust cryptographic devices. This book constitutes the proceedings of the 14th International Workshop on Cryptographic Hardware and Embedded Systems, CHES 2012, held in Leuven, Belgium, in September 2012. The 32 papers presented together with 1 invited talk were carefully reviewed and selected from 120 submissions. The papers are organized in the following topical sections: intrusive attacks and countermeasures; masking; improved fault attacks and side channel analysis; leakage resiliency and security analysis; physically unclonable functions; efficient implementations; lightweight cryptography; we still love RSA; and hardware implementations.

Social networking is a concept that has existed for a long time; however, with the explosion of the Internet, social networking has become a tool for people to connect and communicate in ways that were impossible in the past. The recent development of Web 2.0 has provided many new applications, such as Myspace, Facebook, and LinkedIn. The purpose of Handbook of Social Network Technologies and Applications is to provide comprehensive guidelines on the current and future trends in social network technologies and applications in the field of Web-based Social Networks. This handbook includes contributions from world experts in the field of social networks from both academia and private industry. A number of crucial topics are covered including Web and software technologies and communication technologies for social networks. Web-mining techniques, visualization techniques, intelligent social networks, Semantic Web, and many other topics are covered. Standards for social networks, case studies, and a variety of applications are covered as well.

- This is the latest practice test to pass the SSCP ISC System Security Certified Practitioner Exam. - It contains 1074 Questions and Answers. - All the questions are 100% valid and stable. - You can reply on this practice test to pass the exam with a good mark and in the first attempt.

Smart Card Handbook John Wiley & Sons

The runaway growth of computer viruses and worms and the ongoing nuisance posed by malicious hackers and employees who exploit the security vulnerabilities of open network protocols make the tightness of an organization's security system an issue of prime importance. And information systems technology is advancing at a frenetic pace. Against this background, the challenges facing information security professionals are increasing rapidly. Information Security Management Handbook, Fourth Edition, Volume 2 is an essential reference for anyone involved in the security of information systems.

This book provides a broad overview of the many card systems and solutions that are in practical use today. This new edition adds content on RFIDs, embedded security, attacks and countermeasures, security evaluation, javacards, banking or payment cards, identity cards and passports, mobile systems security, and security management. A step-by-step approach educates the reader in card types, production, operating systems, commercial applications, new technologies, security design, attacks, application development, deployment and lifecycle management. By the end of the book the reader should be able to play an educated role in a smart card related project, even to programming a card application. This book is designed as a textbook for graduate level students in computer science. It is also as an invaluable post-graduate level reference for professionals and researchers. This volume offers insight into

benefits and pitfalls of diverse industry, government, financial and logistics aspects while providing a sufficient level of technical detail to support technologists, information security specialists, engineers and researchers.

This book constitutes the thoroughly refereed post-conference proceedings of the 10th European Workshop, EuroPKI 2013, held in Egham, UK, in September 2013. The 11 revised full papers presented together with 1 invited talk were carefully selected from 20 submissions. The papers are organized in topical sections such as authorization and delegation, certificates management, cross certification, interoperability, key management, legal issues, long-time archiving, time stamping, trust management, trusted computing, ubiquitous scenarios and Web services security.

Provides information on designing effective security mechanisms for e-commerce sites, covering such topics as cryptography, authentication, information classification, threats and attacks, and certification.

This book constitutes the refereed proceedings of the 4th International Conference on Computational Intelligence in Security for Information Systems, CISIS 2011, held in Torremolinos-Málaga, in June 2011 as a satellite event of IWANN 2011, the International Work-conference on Artificial and Natural Neural Networks. The 38 revised full papers presented were carefully reviewed and selected from a total of 70 submissions. The papers are organized in topical sections on machine learning and intelligence, network security, cryptography, securing software, and applications of intelligent methods for security.

Uncovers the growing and expanding phenomenon of human behavior, social constructs, and communication in online environments.

Cyber-physical systems play a crucial role in connecting aspects of online life to physical life. By studying emerging trends in these systems, programming techniques can be optimized and strengthened to create a higher level of effectiveness. Solutions for Cyber-Physical Systems Ubiquity is a critical reference source that discusses the issues and challenges facing the implementation, usage, and challenges of cyber-physical systems. Highlighting relevant topics such as the Internet of Things, smart-card security, multi-core environments, and wireless sensor nodes, this scholarly publication is ideal for engineers, academicians, computer science students, and researchers that would like to stay abreast of current methodologies and trends involving cyber-physical system progression.

Since 1994, CARDIS has been the foremost international conference dedicated to smart card research and applications. Every two years, the scientific community congregates to present new ideas and discuss recent developments with both an

academic and industrial focus. Following the increased capabilities of smart cards and devices, CARDIS has become a major event for the discussion of the various issues related to the use of small electronic tokens in the process of human-machine interactions. The scope of the conference includes numerous sub-

working, efficient implementations, physical security, biometrics, and so on. This year's CARDIS was held in London, UK, on September 8–11, 2008. It was organized by the Smart Card Centre, Information Security Group of the Royal Holloway, University of London.

The present volume contains the 21 papers that were selected from the 51 submissions to the conference. The 22 members of the program committee worked hard in order to evaluate each submission with at least three reviews and agree on a high quality final program. Additionally, 61 external reviewers helped the committee with their expertise. Two invited talks completed the technical program. The first one, given by Ram Banerjee and Anki Nelaturu, was entitled "Getting Started with Java Card 3.0 Platform". The second one, given by Aline Gouget, was about "Recent Advances in Electronic Cash Design" and was completed by an abstract provided in these proceedings.

This book constitutes the proceedings of the 16th International Workshop on

Cryptographic Hardware and Embedded Systems, CHES 2014, held in Busan, South Korea, in September 2014. The 33 full papers included in this volume were carefully reviewed and selected from 127 submissions. They are organized in topical sections named: side-channel attacks; new attacks and constructions; countermeasures; algorithm specific SCA; ECC implementations; implementations; hardware implementations of symmetric cryptosystems; PUFs; and RNGs and SCA issues in hardware.

This book constitutes the refereed proceedings of the Third International Conference on Security Standardisation Research, SSR 2016, held in Gaithersburg, MD, USA, in December 2016. The accepted papers cover a range of topics in the field of security standardisation research, including hash-based signatures, algorithm agility, secure protocols, access control, secure APIs, payment security and key distribution.

Annotation This volume constitutes the refereed proceedings of the 4th IFIP WG 11.2 International Workshop on Information Security Theory and Practices: Security and Privacy of Pervasive Systems and Smart Devices, WISTP 2010, held in Passau, Germany, in April 2010. The 20 revised full papers and 10 short papers were carefully reviewed and selected from 69 submissions. They are organized in topical sections on embedded security, protocols, highly constrained embedded systems, security, smart card security, algorithms, hardware implementations, embedded systems and anonymity/database security.

44 SBI & IBPS Bank PO SOLVED PAPERS consists of past solved papers of SBI, IBPS and other Nationalised Bank Exams from 2010 to 2018. In all there are 44 Question papers from 2010 to 2018 which have been provided year-wise along with detailed solutions. The book also includes the 2015-18 Pre & Mains SBI & IBPS Solved Papers. Practicing these questions, aspirants will come to know about the pattern and toughness of the questions asked in the examination. In the end, this book will make the aspirants competent enough to crack the uncertainty of success in the Entrance Examination. The strength of the book lies in the originality of its question papers and Errorless Solutions. The solution of each and every question is provided in detail (step-by-step) so as to provide 100% concept clarity to the students.

The Public Manager Case Book is a collection of eight public administration cases that allows students to practice the decision-making skills they will need in their jobs as public managers. Each case focuses on the local administrative issues managers most often face in their day-to-day responsibilities, and each encourages students to collaborate with others in order to gain the necessary cooperation and information. The cases are multi-dimensional and challenge students and professors to draw from a variety of knowledge areas to develop alternative recommendations, decisions, or actions.

This practical resource provides a survey on the technologies, protocols, and architectures that are widely used in practice to implement networked multimedia services. The book presents the background and basic concepts behind multimedia networking, and provides a detailed analysis of how multimedia services work, reviewing the diverse network protocols that are of common use to implement them. To guide the explanation of concepts, the book focuses on a representative set of networked multimedia services with proven success and high penetration in the telecommunication market, namely Internet telephony, Video-on-Demand (VoD), and

live IP television (IPTV). Contents are presented following a stepwise approach, describing each network protocol in the context of a networked multimedia service and making appropriate references to the protocol as needed in the description of other multimedia services. This book also contains questions and exercises to provide the reader with insight on the practical application of the explained concepts. Additionally, a laboratory practice is included, based on open-source tools and software, to analyze the operation of an Internet telephony service from a practical perspective, as well as to deploy some of its fundamental components.

Whether you are active in security management or studying for the CISSP exam, you need accurate information you can trust. A practical reference and study guide, Information Security Management Handbook, Fourth Edition, Volume 3 prepares you not only for the CISSP exam, but also for your work as a professional. From cover to cover the book gives you the information you need to understand the exam's core subjects. Providing an overview of the information security arena, each chapter presents a wealth of technical detail. The changes in the technology of information security and the increasing threats to security from open systems make a complete and up-to-date understanding of this material essential. Volume 3 supplements the information in the earlier volumes of this handbook, updating it and keeping it current. There is no duplication of material between any of the three volumes. Because the knowledge required to master information security - the Common Body of Knowledge (CBK) - is growing so quickly, it requires frequent updates. As a study guide or resource that you can use on the job, Information Security Management Handbook, Fourth Edition, Volume 3 is the book you will refer to over and over again.

Smart cards or IC cards offer a huge potential for information processing purposes. The portability and processing power of IC cards allow for highly secure conditional access and reliable distributed information processing. IC cards that can perform highly sophisticated cryptographic computations are already available. Their application in the financial services and telecom industries are well known. But the potential of IC cards go well beyond that. Their applicability in mainstream Information Technology and the Networked Economy is limited mainly by our imagination; the information processing power that can be gained by using IC cards remains as yet mostly untapped and is not well understood. Here lies a vast uncovered research area which we are only beginning to assess, and which will have a great impact on the eventual success of the technology. The research challenges range from electrical engineering on the hardware side to tailor-made cryptographic applications on the software side, and their synergies. This volume comprises the proceedings of the Fourth Working Conference on Smart Card Research and Advanced Applications (CARDIS 2000), which was sponsored by the International Federation for Information Processing (IFIP) and held at the Hewlett-Packard Labs in the United Kingdom in September 2000. CARDIS conferences are unique in that they bring together researchers who are active in all aspects of design of IC cards and related devices and environments, thus stimulating synergy between different research communities from both academia and industry. This volume presents the latest advances in smart card research and applications, and will be essential reading for smart card developers, smart card application developers, and computer science researchers involved in computer architecture, computer security, and cryptography.

This book constitutes the thoroughly refereed post-conference proceedings of the 10th International Workshop on Information Security Applications, WISA 2009, held in Busan, Korea, during August 25-27, 2009. The 27 revised full papers presented were carefully reviewed and selected from a total of 79 submissions. The papers are organized in topical sections on multimedia security, device security, HW implementation security, applied cryptography, side channel attacks, cryptographtanalysis, anonymity/authentication/access controll, and network security.

This exciting resource covers the fundamentals of wireless and PLC technologies. Different types of wireless and PLC technologies used for indoor IoT applications are described. The channel models for both wireless and power line communications are introduced, highlighting the main challenges for these types of communications inside the indoor environment. The book explores the hybrid technologies with television white space (TVWS), very high frequency (VHF) wireless technology, and broadband PLC (BPLC) for indoor high speed IoT networks. A TVWS standardized BPLC system is proposed, which integrates the requirement of primary user sensing and the permissible transmission power spectral density (PSD) for TVWS users into BPLC standard, regarding VHF band access. The hybrid ultra-high frequency (UHF) wireless-powerline sensor networks with a focus on enlarging the network lifetime via cross-layer optimization is presented. Hybrid video sensor networks (HVSNs) with high data rate requirement are explored. Through the joint design of video encoding rate, aggregate power consumption, channel access control, along with link rate allocation, a distributed algorithm is developed, which divides the computational burden among all nodes with much lower communication overhead. The effectiveness of the cross-layer designs are evaluated through extensive simulation results.

Provides research on the social and human aspects of information security.

Presents the latest trends, issues, and findings in the field.

Building on previous editions, this third edition of the Smart Card Handbook offers a completely updated overview of the state of the art in smart card technology. Everything you need to know about smart cards and their applications is covered! Fully revised, this handbook describes the advantages and disadvantages of smart cards when compared with other systems, such as optical cards and magnetic stripe cards and explains the basic technologies to the reader. This book also considers the actual status of appropriate European and international standards. Features include: New sections on: smart card applications (PKCS #15, USIM, Tachosmart). smart card terminals: M.U.S.C.L.E., OCF, MKT, PC/SC. contactless card data transmission with smart cards. Revised and updated chapters on: smart cards in the telecommunications industry (GSM, UMTS, (U)SIM application toolkit, decoding of the files of a GSM card). smart card security (new attacks, new protection methods against attacks). A detailed description of the physical and technical properties and the

fundamental principles of information processing techniques. Explanations of the architecture of smart card operating systems, data transfer to and from the smart card, command set and implementation of the security mechanisms and the function of the smart card terminals. Current applications of the technology on mobile telephones, telephone cards, the electronic purse and credit cards. Discussions on future developments of smart cards: USB, MMU on microcontroller, system on card, flash memory and their usage. Practical guidance on the future applications of smart cards, including health insurance cards, e-ticketing, wireless security, digital signatures and advanced electronic payment methods. "The book is filled with information that students, enthusiasts, managers, experts, developers, researchers and programmers will find useful. The book is well structured and provides a good account of smart card state-of-the-art technology... There is a lot of useful information in this book and as a practicing engineer I found it fascinating, and extremely useful." Review of second edition in *Measurement and Control*. 'The standard has got a lot higher, if you work with smart cards then buy it! Highly recommended.' Review of second edition in *Journal of the Association of C and C++ Programmers*. Visit the Smart Card Handbook online at www.wiley.co.uk/commstech/

This book presents two practical physical attacks. It shows how attackers can reveal the secret key of symmetric as well as asymmetric cryptographic algorithms based on these attacks, and presents countermeasures on the software and the hardware level that can help to prevent them in the future. Though their theory has been known for several years now, since neither attack has yet been successfully implemented in practice, they have generally not been considered a serious threat. In short, their physical attack complexity has been overestimated and the implied security threat has been underestimated. First, the book introduces the photonic side channel, which offers not only temporal resolution, but also the highest possible spatial resolution. Due to the high cost of its initial implementation, it has not been taken seriously. The work shows both simple and differential photonic side channel analyses. Then, it presents a fault attack against pairing-based cryptography. Due to the need for at least two independent precise faults in a single pairing computation, it has not been taken seriously either. Based on these two attacks, the book demonstrates that the assessment of physical attack complexity is error-prone, and as such cryptography should not rely on it. Cryptographic technologies have to be protected against all physical attacks, whether they have already been successfully implemented or not. The development of countermeasures does not require the successful execution of an attack but can already be carried out as soon as the principle of a side channel or a fault attack is sufficiently understood. Banking across the world has undergone extensive changes thanks to the profound influence of developments and trends in information communication technologies, business intelligence, and risk management strategies. While banking has become easier and more convenient for the consumer, the

advances and intricacies of emerging technologies have made banking operations all the more cumbersome. *Advances in Banking Technology and Management: Impacts of ICT and CRM* examines the various myriads of technical and organizational elements that impact services management, business management, risk management, and customer relationship management, and offers research to aid the successful implementation of associated supportive technologies.

You have questions? We have answers! This fourth edition of the #1 bestselling book for pre-teen boys has been fully updated and expanded to include everything you need to know about your changing body, texting and social media, friendship and peer pressure, leadership, and so much more! You update your gadgets, your look, and your fantasy sports teams; now it's time to update your knowledge about the most important person in your life: You! Don't rely on what you hear in the locker room. Find out the truth about your changing body and all that goes with it in *The Boy's Body Book*, the #1 bestselling book on succeeding during adolescence. Some of the topics covered include: * **YOUR CHANGING BODY**: From hair care to athlete's foot, a head to toe guide to what's happening with your growing body * **YOUR CHANGING RELATIONSHIPS**: The care and keeping of parents, siblings, teachers, friends, and coaches * **YOUR CHANGING LIFE**: From dressing for success to internet safety, making better food choices to dealing with bullies (online or in-person), it's a whole new world out there. We've got your back! There's a lot to learn about this next phase of your life. So what are you waiting for? Let *The Boy's Body Book* be your guide. Your whole life is waiting for you!

The Practical Handbook of Internet Computing analyzes a broad array of technologies and concerns related to the Internet, including corporate intranets. Fresh and insightful articles by recognized experts address the key challenges facing Internet users, designers, integrators, and policymakers. In addition to discussing major applications, it also covers the architectures, enabling technologies, software utilities, and engineering techniques that are necessary to conduct distributed computing and take advantage of Web-based services. The Handbook provides practical advice based upon experience, standards, and theory. It examines all aspects of Internet computing in wide-area and enterprise settings, ranging from innovative applications to systems and utilities, enabling technologies, and engineering and management. Content includes articles that explore the components that make Internet computing work, including storage, servers, and other systems and utilities. Additional articles examine the technologies and structures that support the Internet, such as directory services, agents, and policies. The volume also discusses the multidimensional aspects of Internet applications, including mobility, collaboration, and pervasive computing. It concludes with an examination of the Internet as a holistic entity, with considerations of privacy and law combined with technical content.

These Proceedings are the work of researchers contributing to the 10th International

Conference on Cyber Warfare and Security ICCWS 2015, co hosted this year by the University of Venda and The Council for Scientific and Industrial Research. The conference is being held at the Kruger National Park, South Africa on the 24 25 March 2015. The Conference Chair is Dr Jannie Zaaiman from the University of Venda, South Africa, and the Programme Chair is Dr Louise Leenen from the Council for Scientific and Industrial Research, South Africa.

In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library.

Whether you're new to the field or looking to broaden your knowledge of contemporary cryptography, this newly revised edition of an Artech House classic puts all aspects of this important topic into perspective. Delivering an accurate introduction to the current state-of-the-art in modern cryptography, the book offers you an in-depth understanding of essential tools and applications to help you with your daily work. The second edition has been reorganized and expanded, providing mathematical fundamentals and important cryptography principles in the appropriate appendixes, rather than summarized at the beginning of the book. Now you find all the details you need to fully master the material in the relevant sections. This allows you to quickly delve into the practical information you need for your projects. Covering unkeyed, secret key, and public key cryptosystems, this authoritative reference gives you solid working knowledge of the latest and most critical concepts, techniques, and systems in contemporary cryptography. Additionally, the book is supported with over 720 equations, more than 60 illustrations, and numerous time-saving URLs that connect you to websites with related information.

Innovations in cloud and service-oriented architectures continue to attract attention by offering interesting opportunities for research in scientific communities. Although advancements such as computational power, storage, networking, and infrastructure have aided in making major progress in the implementation and realization of cloud-based systems, there are still significant concerns that need to be taken into account. Principles, Methodologies, and Service-Oriented Approaches for Cloud Computing aims to present insight into Cloud principles, examine associated methods and technologies, and investigate the use of service-oriented computing technologies. In addressing supporting infrastructure of the Cloud, including associated challenges and pressing issues, this reference source aims to present researchers, engineers, and IT professionals with various approaches in Cloud computing.

This is the third revised edition of the established and trusted RFID Handbook; the most comprehensive introduction to radio frequency identification (RFID) available. This essential new edition contains information on electronic product code (EPC) and the EPC global

network, and explains near-field communication (NFC) in depth. It includes revisions on chapters devoted to the physical principles of RFID systems and microprocessors, and supplies up-to-date details on relevant standards and regulations. Taking into account critical modern concerns, this handbook provides the latest information on: the use of RFID in ticketing and electronic passports; the security of RFID systems, explaining attacks on RFID systems and other security matters, such as transponder emulation and cloning, defence using cryptographic methods, and electronic article surveillance; frequency ranges and radio licensing regulations. The text explores schematic circuits of simple transponders and readers, and includes new material on active and passive transponders, ISO/IEC 18000 family, ISO/IEC 15691 and 15692. It also describes the technical limits of RFID systems. A unique resource offering a complete overview of the large and varied world of RFID, Klaus Finkenzeller's volume is useful for end-users of the technology as well as practitioners in auto ID and IT designers of RFID products. Computer and electronics engineers in security system development, microchip designers, and materials handling specialists benefit from this book, as do automation, industrial and transport engineers. Clear and thorough explanations also make this an excellent introduction to the topic for graduate level students in electronics and industrial engineering design. Klaus Finkenzeller was awarded the Fraunhofer-Smart Card Prize 2008 for the second edition of this publication, which was celebrated for being an outstanding contribution to the smart card field.

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