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Smart Card Handbook

Second Edition

W. Rankl & W. Effing



Smart Card Handbook

Roman Wölfel

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Smart Card Handbook Wolfgang Rankl,Wolfgang Effing,2010-11-04 The most comprehensive book on state of the art smart card technology available Updated with new international standards and specifications this essential fourth edition now covers all aspects of smart card in a completely revised structure Its enlarged coverage now includes smart cards for passports and ID cards health care cards smart cards for public transport and Java Card 3.0 New sub chapters cover near field communication NFC single wire protocol SWP and multi megabyte smart cards microcontroller with NAND Flash There are also extensive revisions to chapters on smart card production the security of smart cards including coverage of new attacks and protection methods and contactless card data transmission ISO IEC 10536 ISO IEC 14443 ISO IEC 15693 This edition also features additional views to the future development of smart cards such as USB MMU SWP HCI Flash memory and their usage new internet technologies for smart cards smart card web server HTTP Protocol TCP IP SSL TSL integration of the new flash based microcontrollers for smart cards until now the usual ROM based microcontrollers and a completely revised glossary with explanations of all important smart card subjects 600 glossary terms Smart Card Handbook is firmly established as the definitive reference to every aspect of smart card technology proving an invaluable resource for security systems development engineers Professionals and microchip designers working in the smart card industry will continue to benefit from this essential guide This book is also ideal for newcomers to the field The Fraunhofer Smart Card Award was presented to the authors for the Smart Card Handbook Third Edition in 2008

Smart Card Handbook Wolfgang Rankl,Wolfgang Effing,2004-04-02 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

Smart Card Handbook Wolfgang Rankl,Wolfgang Effing,1997 Written in a highly accessible style the Smart Card Handbook meets the needs of both novice and expert This is an essential reference for computer and electronics engineers and students in microchip design and security system development For professionals developing smart card products this unique reference will provide an invaluable insight to all the facets of this sophisticated technology **Smart Card Handbook** Wolfgang Rankl,2003-05-20 **The Smart Card Handbook** L. Robert Tolley,Diane L. Johnson,1997-01-01

The Smart Card Handbook - Everything You Need to Know about Smart Card Audrey Lewis,2016-06-14 This book is your ultimate Smart Card resource Here you will find the most up to date information facts quotes and much more In easy to read chapters with extensive references and links to get you to know all there is to know about Smart Card s whole picture right away Get countless Smart Card facts right at your fingertips with this essential resource The Smart Card Handbook is the single and largest Smart Card reference book This compendium of information is the authoritative source for all your entertainment reference and learning needs It will be your go to source for any Smart Card questions A mind tickling encyclopedia on Smart Card a treat in its entirety and an oasis of learning about what you don t yet know but are glad you found The Smart Card Handbook will answer all of your needs and much more **Government Smart Card Handbook** United States. General Services Administration. Office of Governmentwide Policy,2004 **Smart Card Applications**

Wolfgang Rankl,2007-06-05 A practical guide to the specification design and programming of smart card systems for working applications More than 3 billion smartcards are produced every year Generally defined as any pocket sized card with embedded integrated circuits or chips they have a huge number of applications including travel cards chip and pin cards pet tags mobile phone SIMs and pallet trackers Now with modern Smart Card technology such as Java Card and Basic Card it is possible for everyone to create his or her own applications on a smart card This book provides generic solutions for programming smart cards enabling the creation of working applications and systems Key features Presents a comprehensive introduction to the topic of smart cards explaining component elements and the smart card microcontrollers Sets out information on operating systems with case studies of a range of applications including credit card security mobile phones and transport payment cards Gives detailed advice on the monitoring of smart card applications recognizing potential attacks on security and improving system integrity Provides modules and examples so that all types of systems can be built up from a

small number of individual components Offers guidelines on avoiding and overcoming design errors Ideal for practising engineers and designers looking to implement smart cards in their business it is also a valuable reference for postgraduate students taking courses on embedded system and smart card design *Smart Cards* Henry Dreifus,J. Thomas

Monk,1998-01-07 A complete nuts and bolts guide to designing building and managing the smart card system that s right for your company Already a well established medium of exchange in Europe smart card technology has made major inroads in the North American market in the past few years Visa and Mastercard are committed to replacing credit cards with them over the next five years and Microsoft is racing to use them for e commerce Clearly the time for asking Why regarding smart cards has passed The important question companies now should be asking themselves is How how to plan how to develop how to implement and how to manage the smart card system that is right for our company This book provides complete unbiased answers to these and all your technical and business questions about smart card systems Dreifus and Monk guide you step by step through the entire process of selecting designing building and managing a smart card application tailored to your business They supply numerous checklists to help guarantee that you make the correct technical decisions during each phase of the process And they include real world case studies illustrating successful smart card implementations in a variety of industries including banking manufacturing entertainment healthcare and transportation Crucial topics covered in detail include Smart card architectures and standards Security and encryption Smart card operating systems Smart card application design and development Development tools Testing and certification Smart Cards arms you with everything you need to know to make informed decisions about the smart card system that s right for your company *Smart Card*

Manufacturing Yahya Haghiri,Thomas Tarantino,2002-03-22 Demand for the increased protection of personal data has caused a significant rise in the profile of smart cards and this will continue to be a major growth area with secure mobile communication and e commerce applications An understanding of the structure and manufacturing of smart cards is key to the continued development of intelligent systems First published in German Haghiri and Tarantino have produced the standard reference on the structure of smart cards and the technologies for embedding chips into smart cards Detailed coverage of the practicalities and mechanics of smart card manufacture will appeal to a range of software developers practitioners and students from within the electronics security and communications arenas Details the structure and manufacturing processes of smart cards an area largely omitted from other recent publications Coverage of the full range of techniques applied to the development and production of smart cards Presents an overview of the development of smartcards and the range of their evolving applications **The Handbook of Computer Networks, Distributed Networks, Network Planning, Control, Management, and New Trends and Applications**

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Smart Cards Roy Bright,1988 *Information Security Handbook* William Caelli,Dennis Longley,Michael

Shain,1991 PC AI ,2001 **RFID Handbook** Klaus Finkenzeller,2010-11-04

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Windows .NET Server Security Handbook Cyrus Peikari,Seth Fogie,2002 Two leading experts show users how to take advantage of important new Windows NET and XP security features from NET s firewall to its Encrypting File System Discover the critical security implications of Remote Desktop and Remote Assistance then learn how to use Microsoft s latest tools to configure security in a wide range of scenarios

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