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Power analysis attacks allow the extraction of secret information from smart cards. Smart cards are used in many applications including banking, mobile communications, pay TV, and electronic signatures. In all these applications, the security of the smart cards is of crucial importance. Power Analysis Attacks: Revealing the Secrets of Smart Cards is the first comprehensive treatment of power analysis attacks and countermeasures.

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Power Analysis Attacks: Revealing the Secrets of Smart ...

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\Power Analysis Attacks: Revealing the Secrets of Smart Cards" by Stefan Mangard, Elisabeth Oswald and Thomas Popp Springer, 2007 ISBN: 978-0-387-30857-9 Arnaud Tisserand CNRS, IRISA Laboratory, Lannion, France Abstract: This book provides a very clear, complete and highly illus-trated presentation of power analysis methods used to extract secret

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Introduction. Power analysis attacks allow the extraction of secret information from smart cards. Smart cards are used in many applications including banking, mobile communications, pay TV, and electronic signatures. In all these applications, the security of the smart cards is of crucial importance. Power Analysis Attacks: Revealing the Secrets of Smart Cards is the first comprehensive treatment of power analysis attacks and countermeasures.

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Power Analysis Attacks - Revealing the Secrets of Smart Cards — Graz University of Technology Power Analysis Attacks - Revealing the Secrets of Smart Cards Stefan Mangard, Maria Elisabeth Oswald, Thomas Popp Institute of Applied Information Processing and Communications (7050)

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Power analysis attacks exploit the fact that the instantaneous power consumption of a device built in CMOS technology depends on the data it processes and the operations it performs. CMOS technology is the predominant technology for (cryptographic) devices

Power Analysis Attacks

potentiometers, 120 power glitching, 156 power-analysis attacks, 138-148, 227 powertrain control module (PCM), 33, 51 PRF (pseudorandom function), 220 PRNG (pseudorandom number generator), 218, 220 procfs interface, 45-46 proof-of-concept (PoC) broadcast manager server, 41 pseudonym certificate (PC), 189 Pseudonym Certificate Authority (PCA), 190 pseudorandom function (PRF), 220 ...

potentiometers 120 power glitching 156 power analysis ...

Power Analysis Attacks: Revealing the Secrets of Smart Cards is the first comprehensive treatment of power analysis attacks and countermeasures. Based on the principle that the only way to defend against power analysis attacks is to understand them, this book explains how power analysis attacks work.

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Table of Contents

Power analysis is a form of side channel attack in which the attacker studies the power consumption of a cryptographic hardware device. These attacks rely on basic physical properties of the device: semiconductor devices are governed by the laws of physics, which dictate that changes in voltages within the device require very small movements of electric charges (currents).

Power analysis - Wikipedia

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In power analysis attacks, the attacker attempts to reveal secret information that is stored inside the device, on the basis of the cryptographic device's power consumption. This targeted information is typically a secret key that is used for a cryptographic algorithm, so we refer to this information as the secret key for the remainder of this article.

Power Analysis Attacks and Countermeasures

With Stefan Mangard and Thomas Popp, Oswald is a coauthor of the book Power Analysis Attacks: Revealing the Secrets of Smartcards (Springer, 2007).

Elisabeth Oswald - Wikipedia

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Security of Information and Networks includes invited and contributed papers on information assurance, security, and public policy. It covers Ciphers, Mobile Agents, Access Control, Security Assurance, Intrusion Detection, and Security Software.

RSA is a public-key cryptographic system, and is the most famous and widely-used cryptographic system in today's digital world. Cryptanalytic Attacks on RSA, a professional book, covers almost all known cryptanalytic attacks and defenses of the RSA cryptographic system and its variants. Since RSA depends heavily on computational complexity theory and number theory, background information on complexity theory and number theory is presented first, followed by an account of the RSA cryptographic system and its variants. This book is also suitable as a secondary text for advanced-level students in computer science and mathematics.

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 mutlimedia security, device security, HW implementation security, applied cryptography, side channel attacks, cryptograptanalysis, anonymity/authentication/access controll, and network security.

This book constitutes the proceedings of the 16th International Symposium on Research in Attacks, Intrusions and Defenses, former Recent Advances in Intrusion Detection, RAID 2013, held in Rodney Bay, St. Lucia in October 2013. The volume contains 22 full papers that were carefully reviewed and selected from 95 submissions, as well as 10 poster papers selected from the 23 submissions. The papers address all current topics in computer security ranged from hardware-level security, server, web, mobile, and cloud-based security, malware analysis, and web and network privacy.

These proceedings contain the papers selected for presentation at the 23rd Inter- tional Information Security Conference (SEC 2008), co-located with IFIP World Computer Congress (WCC 2008), September 8–10, 2008 in Milan, Italy. In - sponse to the call for papers, 143 papers were submitted to the conference. All - pers were evaluated on the basis of their signi?cance, novelty,and technical quality, and reviewed by at least three members of the program committee. Reviewing was blind meaning that the authors were not told which committee members reviewed which papers. The program committee meeting was held electronically, holding - tensive discussion over a period of three weeks. Of the papers submitted, 42 full papers and 11 short papers were selected for presentation at the conference. A conference like this just does not happen; it depends on the volunteer efforts of a host of individuals. There is a long list of people who volunteered their time and energy to put together the conference and who deserve acknowledgment. We thank all members of the program committee and the external reviewers for their hard work in the paper evaluation. Due to the large number of submissions, p-gram committee members were required to complete their reviews in a short time frame. We are especially thankful to them for the commitment they showed with their active participation in the electronic discussion.

Information Systems (IS) are a nearly omnipresent aspect of the modern world, playing crucial roles in the fields of science and engineering, business and law, art and culture, politics and government, and many others. As such, identity theft and unauthorized access to these systems are serious concerns. Theory and Practice of Cryptography Solutions for Secure Information Systems explores current trends in IS security technologies, techniques, and concerns, primarily through the use of cryptographic tools to safeguard valuable information resources. This reference book serves the needs of professionals, academics, and students requiring dedicated information systems free from outside interference, as well as developers of secure IS applications. This book is part of the Advances in Information Security, Privacy, and Ethics series collection.

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.

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