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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 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

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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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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

Power analysis attacks allow the extraction of secret information from smart cards. 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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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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