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Of Smart Cards Author Stefan  
Mangard Apr 2007

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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 Attacks: Revealing  
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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 illustrated presentation of power analysis methods used to extract secret

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## revealing the secrets of ...

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SIMPLE POWER ANALYSIS Simple power analysis (SPA) attacks are characterized by Kocher et al. in [KJJ99] in the following way: "SPA is a technique that involves directly interpreting power consumption measurements collected during cryptographic

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Simple power analysis attacks, are noninvasive, because the attackers, will only collect the power and the current traces, during system's normal execution. They do not leave much evidence, of the attacking either.

## **Power Analysis - Side Channel**

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## **Attacks and Countermeasures ...**

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### **Home [dpabook.iaik.tugraz.at]**

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**

This holds for Power Analysis as for other Side Channel Attacks in general. Simple side channel attacks only analyze the side channel during execution of the



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cryptographic procedure.. Differential side channel attacks also analyze the system in other states (e.g. other operations on the CPU, etc.) and uses the differences in the observed patterns.Hence it is more complicated and time-consuming ...

## **attacks - What is the difference between Simple Power ...**

In order to help you with your first DPA attack, we have prepared a demo script and workspace data, which allows you to mount DPA attacks based on two statistical methods. In addition, there are two scripts that facilitate plotting the resulting DPA traces. The demo DPA script does not require any special toolboxes of Matlab.

## **Matlab Scripts - Graz University of Technology**

Simple power analysis (SPA) is a side-channel attack which involves visual examination of graphs of the current used by a device over time. Variations in

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power consumption occur as the device performs different operations. For example, different instructions performed by a microprocessor will have differing power consumption profiles.

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