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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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A power-analysis attack can provide even more detailed information by observing the power consumption of a hardware device such as CPU or cryptographic circuit. These attacks are roughly categorized into simple power analysis (SPA) and differential power analysis (DPA). ... revealing some information about the frequency of use of memory blocks ...

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In this section we'll discuss power analysis attacks, which are a type of eavesdropping attacks. This section represents the main focus of the paper. The basic setup is the same for all the power analysis attacks. The attacker has physical access to a microcontroller and can record the external data bus as well as the current intensity (See Figure 2).

## **1 Breaking Smartcards Using Power Analysis**

an example for power analysis discussions due to its wide adoption. The appendix has an introduction of the AES round functions and the cipher implementation choices. The AES standard is specified in [Nat01]. This paper focuses on the di

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ifferential power analysis be-cause it is much harder to defend against than the simple power analysis attacks.

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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.

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