



# The Design of Rijndael: AES - The Advanced Encryption Standard (Information Security and Cryptography)

By Joan Daemen, Vincent Rijmen

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An authoritative and comprehensive guide to the Rijndael algorithm and Advanced Encryption Standard (AES). AES is expected to gradually replace the present Data Encryption Standard (DES) as the most widely applied data encryption technology. This book, written by the designers of the block cipher, presents Rijndael from scratch. The underlying mathematics and the wide trail strategy as the basic design idea are explained in detail and the basics of differential and linear cryptanalysis are reworked. Subsequent chapters review all known attacks against the Rijndael structure and deal with implementation and optimization issues. Finally, other ciphers related to Rijndael are presented.

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*By Joan Daemen, Vincent Rijmen*

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### **Editorial Review**

#### Review

"...an excellent choice for people who are interested in how Rijndael really works and who need more explanations than research papers usually contain. It is a book that readers will regularly consult when they need to look up details about Rijndael." –Computing Reviews

#### From the Back Cover

In October 2000, the US National Institute of Standards and Technology selected the block cipher Rijndael as the Advanced Encryption Standard (AES). AES is expected to gradually replace the present Data Encryption Standard (DES) as the most widely applied data encryption technology.

This book by the designers of the block cipher presents Rijndael from scratch. The underlying mathematics and the wide trail strategy as the basic design idea are explained in detail and the basics of differential and linear cryptanalysis are reworked. Subsequent chapters review all known attacks against the Rijndael structure and deal with implementation and optimization issues. Finally, other ciphers related to Rijndael are presented.

This volume is THE authoritative guide to the Rijndael algorithm and AES. Professionals, researchers, and students active or interested in data encryption will find it a valuable source of information and reference.

### **Users Review**

#### **From reader reviews:**

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The guide with title The Design of RijndaeL: AES - The Advanced Encryption Standard (Information Security and Cryptography) has lot of information that you can understand it. You can get a lot of help after read this book. This specific book exist new knowledge the information that exist in this reserve represented the condition of the world today. That is important to yo7u to understand how the improvement of the world. This specific book will bring you inside new era of the internationalization. You can read the e-book on the smart phone, so you can read this anywhere you want.

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