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mathematical aspects and is very prosaic, which makes for difficult reading. The numerous

mathematically concise. The saving grace is the research problems section at the end of

attackers to make use of the vulnerabilities of the cipher. The authors discuss some fault attacks on RC4. They then talk about some variants of RC4 and the stream cipher HC-128.

The authors must be acknowledged for bringing out the first book on the RC4 stream cipher, which is widely used and worth studying. The allocation of the material in the book

into ten homogeneous topics is appreciated. However, the book is very heavy on

lemmas, theorems, and proofs make the book very dull and tiresome, though

There is a short concluding chapter that mentions the safe use of RC4.

each chapter. The inclusion of questions and exercises (mathematically oriented as well as programming-based) would have helped to overcome the monotony of the book. The
authors should have touched upon the factors that enabled the success of RC4, and
mentioned protocols and products that employ it. A list of acronyms would have helped
minimize the effort required of the reader to find their meanings. The authors should have
touched upon implementation issues in both software and hardware, and could have
provided more programming assistance. The references are adequate and current. The
brief, one-page concluding chapter of the book is very disappointing. It touches upon the
safe use of RC4 in just a few words. The authors have done some considerable work on
RC4, but I feel they could have produced a more readable book. Nonetheless, I
recommend this book as a reference book for computer security professionals and
researchers.

Reviewer: <u>S. V. Nagaraj</u>				
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