

Manfred R. Schroeder

NUMBER THEORY IN SCIENCE AND COMMUNICATION

WITH APPLICATIONS
IN CRYPTOGRAPHY,
PHYSICS,
DIGITAL INFORMATION,
COMPUTING,
AND
SELF-SIMILARITY

THIRD EDITION

 Springer

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Song Y. Yan



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called additive natural stream ciphers. These ciphers use a natural sequence generator to produce a periodic keystream. Full definitions of these concepts are given in Chapter 2. This book focuses on keystream sequences which can be analysed using number theory. It turns out that a great deal of information can be deduced about the cryptographic properties of many classes of sequences by applying the terminology and theorems of number theory. These connections can be explicitly made by describing three kinds of bridges between stream ciphering problems and number theory problems. A detailed summary of these ideas is given in the introductory Chapter 1. Many results in the book are new and over seventy percent of these results described in this book are based on recent research results. Stream Ciphers and Number Theory Thomas W.

Cusick, Cunsheng Ding, Ari R. Renvall, 2004-02-17 This is the unique book on cross fertilisations between stream ciphers and number theory. It systematically and comprehensively covers known connections between the two areas that are available only in research papers. Some parts of this book consist of new research results that are not available elsewhere. In addition to exercises over thirty research problems are presented in this book. In this revised edition almost every chapter was updated and some chapters were completely rewritten. It is useful as a textbook for a graduate course on the subject as well as a reference book for researchers in related fields. Unique book on interactions of stream ciphers and number theory. Research monograph with many results not available elsewhere. A revised edition with the most recent advances in this subject. Over thirty research problems for stimulating interactions between the two areas. Written by leading researchers in stream ciphers and number theory. **Number Theory** Don Redmond, 2020-09-29 This text provides a detailed introduction to number theory demonstrating how other areas of mathematics enter into the study of the properties of natural numbers. It contains problem sets within each section and at the end of each chapter to reinforce essential concepts and includes up to date information on divisibility problems, polynomial congruence, the sums of squares and trigonometric sums. Five or more copies may be ordered by college or university bookstores at a special price available on application.

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