

AUTOMATIC SEQUENCES

Theory, Applications, Generalizations

JEAN-PAUL ALLOUCHE & JEFFREY SHALLIT

AUTOMATIC SEQUENCES

ALLOUCHE
& SHALLIT

Uniting dozens of seemingly disparate results from different fields, this book combines concepts from mathematics and computer science to present the first integrated treatment of sequences generated by "finite automata."

The authors apply the theory to the study of automatic sequences and their generalizations, such as Sierpinski words and k - 1 -regular sequences. And further, they provide applications to number theory (particularly to formal power series and transcendence in finite characteristics), physics, computer graphics, and music.

Starting from first principles wherever feasible, basic results from combinatorics on words, numeration systems, and models of computation are discussed. Thus this book is suitable for graduate students or advanced undergraduates, as well as for mature researchers wishing to know more about this fascinating subject.

Jean-Paul Allouche is Directeur de Recherche at CNRS, UJL, CReS. He has written some 40 papers in number theory and combinatorics on words. He is on the editorial board of *Advances in Applied Mathematics* and on the scientific committee of the *Journal de Théorie des Nombres de Bordeaux*.

Jeffrey Shallit is Professor of Computer Science at the University of Waterloo. He has written 60 articles on number theory, algorithms, formal languages, combinatorics on words, computer graphics, history of mathematics, algebra and automata theory. He is the editor-in-chief of the *Journal of Integer Sequences* and co-author of *Algorithmic Number Theory*.

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Table of Contents Automatic Sequences

1. Understanding the eBook Automatic Sequences
 - The Rise of Digital Reading Automatic Sequences
 - Advantages of eBooks Over Traditional Books
2. Identifying Automatic Sequences
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Automatic Sequences
 - User-Friendly Interface
4. Exploring eBook Recommendations from Automatic Sequences
 - Personalized Recommendations
 - Automatic Sequences User Reviews and Ratings
 - Automatic Sequences and Bestseller Lists

5. Accessing Automatic Sequences Free and Paid eBooks
 - Automatic Sequences Public Domain eBooks
 - Automatic Sequences eBook Subscription Services
 - Automatic Sequences Budget-Friendly Options
6. Navigating Automatic Sequences eBook Formats
 - ePub, PDF, MOBI, and More
 - Automatic Sequences Compatibility with Devices
 - Automatic Sequences Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Automatic Sequences
 - Highlighting and Note-Taking Automatic Sequences
 - Interactive Elements Automatic Sequences
8. Staying Engaged with Automatic Sequences
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Automatic Sequences
9. Balancing eBooks and Physical Books Automatic Sequences
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Automatic Sequences
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Automatic Sequences
 - Setting Reading Goals Automatic Sequences
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Automatic Sequences
 - Fact-Checking eBook Content of Automatic Sequences
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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