

# AUTOMATIC SEQUENCES

Theory, Applications, Generalizations

JEAN-PAUL ALLOUCHE & JEFFREY SHALLIT

## AUTOMATIC SEQUENCES

ALLOUCHE  
& SHALLIT

Using 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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