

**Perrin, Dominique; Pin, Jean-Éric****Infinite words. Automata, semigroups, logic and games.** (English) Zbl 1094.68052

Pure and Applied Mathematics (Amsterdam) 141. Amsterdam: Elsevier/Academic Press (ISBN 0-12-532111-2/hbk). xi, 538 p. (2004).

Publisher's description: Infinite Words is an important theory in both mathematics and computer science. Many new developments have been made in the field, encouraged by its application to problems in computer science. This book is the first manual devoted to this topic.

The book explores all aspects of the theory, including automata, semigroups, topology, games, logic, bi-infinite words, infinite trees and finite words. The book also looks at the early pioneering work of Büchi, McNaughton and Schützenberger.

**MSC:**

- [68Q45](#) Formal languages and automata
- [68R15](#) Combinatorics on words
- [68-01](#) Introductory exposition (textbooks, tutorial papers, etc.) pertaining to computer science
- [68-02](#) Research exposition (monographs, survey articles) pertaining to computer science
- [20M35](#) Semigroups in automata theory, linguistics, etc.
- [91A80](#) Applications of game theory

Cited in **123** Documents**Keywords:**[bi-infinite words](#); [infinite trees](#); [finite words](#)**Software:**[MONA](#)**Full Text:** [Link](#)