

## Automata Theory With Modern Applications

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### Automata Theory With Modern Applications

Recent applications to biomolecular science and DNA computing have created a new audience for automata theory and formal languages. This is the only introductory book to cover such applications. It begins with a clear and readily understood exposition of the fundamentals that assumes only a background in discrete mathematics.

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### Automata Theory with Modern Applications by James A. Anderson

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### Automata Theory with Modern Applications

Automata Theory with Modern Applications With contributions by Tom Head JAMES A. ANDERSON University of South Carolina Upstate CAMBRIDGE UNIVERSITY PRESS. Contents Preface page vii 1 Introduction 1 1.1 Sets • . 1 1.2 Relations 6 1.3 Functions 12 1.4 Semigroups 16 2 Languages and codes 23

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### Modern Applications of Automata Theory - GBV

The modern-day pioneer of cellular automata applications is Stephen Wolfram, who argues that the entire universe might eventually be describable as a machine with finite sets of states and rules and a single initial condition. He relates automata theory to a wide variety of scientific pursuits, including: Fluid Flow; Snowflake and crystal formation

### Applications of Automata Theory

Deterministic: For a given current state and an input symbol, if an automaton can only jump to one and only one state... Nondeterministic: An automaton that, after reading an input symbol, may jump into any of a number of states, as licensed... Alternation: This idea is quite similar to tree ...

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### Automata Theory with Modern Applications

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