

# Mathematical Logic for Computer Science

*Third Edition*

Mordechai Ben-Ari

## Mathematical Logic for Computer Science

*Third Edition*

 Springer

**Mathematical Logic for Computer Science**  
*Third Edition*

*Mathematical Logic for Computer Science* is a mathematics textbook with theorems and proofs. But the science of logic has been pushed by the needs of computer scientists to a level that is both theoretically sound and easy to understand. The authors use a tabular logic-based technique to facilitate learning advanced logical systems based on what the reader has learned from elementary systems.

The logical systems presented are propositional logic, first-order logic, resolution and its application to logic programming, Hoare logic for the verification of sequential programs, and linear temporal logic for the verification of concurrent programs.

The third edition has been entirely rewritten and includes new chapters on central topics of modern computer science: SAT solvers and model checking.

There are 130 exercises with answers available to qualified instructors.

Encouraged, open-source, Python source code for the algorithms is available at <http://code.google.com/p/mlc/>.

Mordechai (Moti) Ben-Ari is with the Department of Science Teaching at the Weizmann Institute of Science. He is a Distinguished Educator of the ACM and has received the ACM/IEEE-CS Award for Outstanding Contributions to Computer Science Education. His other textbooks published by Springer are: *Logic for Software Engineers* (Second Edition) and *Principles of the Spin Model Checker*.

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