

Mathematical Logic for Computer Science

Third Edition

Mordechai Ben-Ari

Mathematical Logic for Computer Science

Third Edition

 Springer

Mordechai Ben-Ari
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 is here guided by the needs of students of computer science. The method of systematic tabular proof provides an elegant way to teach logic that is both theoretically sound and easy to understand. The sections on algorithmic-based techniques facilitate learning advanced logical systems based on what the student has learned from elementary systems.

The logical systems presented are propositional logic, first-order logic, resolution and its applications 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 120 exercises with answers available to qualified instructors.

Documented, open-source, Prolog 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: *Ada for Software Engineers* (Second Edition) and *Principles of the Spin Model Checker*.

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Mathematical Logic For Computer Science

Mordechai Ben-Ari



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Whispering the Techniques of Language: An Emotional Journey through **Mathematical Logic For Computer Science**

In a digitally-driven earth wherever screens reign supreme and immediate conversation drowns out the subtleties of language, the profound techniques and mental subtleties hidden within words frequently move unheard. However, set within the pages of **Mathematical Logic For Computer Science** a captivating literary value blinking with natural feelings, lies a fantastic quest waiting to be undertaken. Composed by a skilled wordsmith, that marvelous opus attracts viewers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within the cloth of each and every word. Within the psychological depths with this poignant evaluation, we can embark upon a heartfelt exploration of the book's primary themes, dissect its captivating publishing design, and fail to the strong resonance it evokes deep within the recesses of readers' hearts.

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