


Introduction to Automata Theory, Languages, and Computation

John E. Hopcroft , Rajeev Motwani , Jeffrey D. Ullman

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This classic book on formal languages, automata theory, and computational complexity has been updated to present theoretical concepts in a concise and straightforward manner with the increase of hands-on, practical applications. This new edition comes with Gradiance, an online assessment tool developed for computer science. Gradiance is the most advanced online assessment tool developed for the computer science discipline. With its innovative underlying technology, Gradiance turns basic homework assignments and programming labs into an interactive learning experience for students. By using a series of root questions and hints, it not only tests a student's capability, but actually simulates a one-on-one teacher-student tutorial that allows for the student to more easily learn the material. Through the programming labs, instructors are capable of testing, tracking, and honing their students' skills, both in terms of syntax and semantics, with an unprecedented level of assessment never before offered. For more information about Gradiance, please visit www.aw.com/gradiance.

Introduction to Automata Theory, Languages, and Computation Details

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From Reader Review Introduction to Automata Theory, Languages, and Computation for online ebook

Zhaodan Kong says

I haven't read the original version of this book, which some computer scientists told me that they prefer. But for my own sake, as an engineering who just want to get a grasp of some basic ideas about automata, Turing machine, decidability and NP vs. P, I would say this book is the perfect match.

David says

Read in tandem with the definitive Sipser text on the topic. I would recommend Sipser, as it is much better at simply communicating the raw concepts, but is weak in application to keep you engaged. And that is where this text delivers. It kept me interested in the topics so that I would dig deeper in to Sipser. The two are parallel from start to finish, so it made an excellent companion.

Srikanth Madikeri says

best text book for an introduction on this subject

Sunil says

hgkjdsjg

Akter Zaman says

This is really a good book. I want to learn more from this book.

Mohammad Shaker says

Not a great book to learn about Automata. Good as a reference.

?? ? says

This book is not a great book for a beginner, especially for one without a teacher.(Maybe It is also because

the poor translation of Chinese version hindering me to understand)

John Ledesma says

Picked up from Saida Akhter in exchange for
ECE 372 Project Report on January, 30th 2012.

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[Hardcover]

Prashant Singh says

Since I am a beginner it's a bit tough for me to grasp the subject.

mohsenmomeni momeni says

Translated to farsi with Ahmad Reza Jalili.

It's my reference on this term teaching.

It had good slides in it's site, translated to farsi by Dr Minaei.

Anil Joshi says

This is the original edition which has a nice description of CSGs and LBA. These two topics are omitted in later editions. I lost my personal copy of the original edition and ordered the later edition only to find that several important topics including the above two which are of particular interest to me to be missing. While the missing topics are not very practical they have certain theoretical beauty. The two author edition is highly recommended.

PS: Original review which had been written on an iPad is revised to be lot more coherent with proper grammar and spelling corrections. Smartphone/Handheld/Tablet/Phablet predictive spelling/grammar correction, to put it mildly, is a shame to the model based predictive NLP research community.

Daniel Maturana says

A classic, so there's not much to say. I did find the notation somewhat cumbersome.

Lewis Cawthorne says

Enjoyed studying undergraduate CS theory from this book. It was interesting enough for me to read the half we didn't get to in class's on my own, and it didn't require monumental effort / re-reading / outside materials to understand the subject matter. In that regard, I would say it is a find undergrad book, but probably not the best choice for grad level studies. It does seem to cover a lot of the expected knowledge that shows up in other classes, and it doesn't presuppose the student is an expert at magnetically proof but also does not avoid proofs.

Seonhee Grace says

SO HARD TO UNDERSTAND!!!

Nagendra says

dddaa aaa
