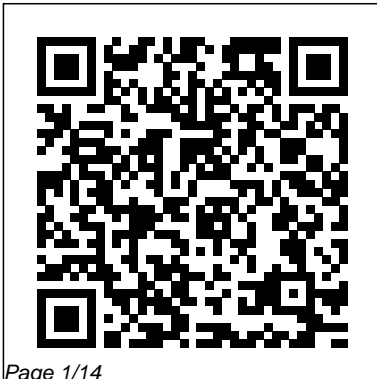

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Think Python Oxford University Press on Demand

Introduction to Languages and the Theory of Computation is an introduction to the theory of computation that emphasizes formal languages, automata and abstract models of computation, and computability; it also includes an introduction to computational complexity and NP-completeness. Through the study of these topics, students encounter profound computational questions and are introduced to topics that will have an ongoing impact in computer science. Once students have seen some of the many diverse technologies contributing to computer science, they can also begin to appreciate the field as a coherent discipline. A distinctive feature of this text is its gentle and gradual introduction of the necessary mathematical tools in the

context in which they are used. Martin takes advantage of the clarity and precision of mathematical language but also provides discussion and examples that make the language intelligible to those just learning to read and speak it. The material is designed to be accessible to students who do not have a strong background in discrete mathematics, but it is also appropriate for students who have had some exposure to discrete math but whose skills in this area need to be consolidated and sharpened.

Logic and Discrete Mathematics MIT Press
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. Please note, Gradiance is no longer available with this book, as we no longer support this product.

[A Short Introduction to Quantum Information and Quantum Computation](#) Cambridge University Press

An exceptionally clear and accessible reference and workbook for anyone who wants to learn Arabic. Easy Arabic Grammar is both a handy grammar reference and a primer/workbook for beginning to intermediate-level students of Arabic. Clear structural explanations and practice activities make it a perfect companion for formal language classes as well as any self-teaching course.

Computational Complexity "O'Reilly Media, Inc."

An introduction to computational complexity theory, its connections and interactions with

mathematics, and its central role in the natural and social sciences, technology, and philosophy. Mathematics and Computation provides a broad, conceptual overview of computational complexity theory—the mathematical study of efficient computation. With important practical applications to computer science and industry, computational complexity theory has evolved into a highly interdisciplinary field, with strong links to most mathematical areas and to a growing number of scientific endeavors. Avi Wigderson takes a sweeping survey of complexity theory, emphasizing the field's insights and challenges. He explains the ideas and motivations leading to key models, notions, and results. In particular, he looks at algorithms and complexity, computations and proofs, randomness and interaction, quantum and arithmetic computation, and cryptography and learning, all as parts of a cohesive whole with

numerous cross-influences. Wigderson illustrates the immense breadth of the field, its beauty and richness, and its diverse and growing interactions with other areas of mathematics. He ends with a comprehensive look at the theory of computation, its methodology and aspirations, and the unique and fundamental ways in which it has shaped and will further shape science, technology, and society. For further reading, an extensive bibliography is provided for all topics covered. Mathematics and Computation is useful for undergraduate and graduate students in mathematics, computer science, and related fields, as well as researchers and teachers in these fields. Many parts require little background, and serve as an invitation to newcomers seeking an introduction to the theory of computation. Comprehensive coverage of computational complexity theory, and beyond High-level, intuitive exposition,

which brings conceptual clarity to this central and dynamic scientific discipline Historical accounts of the evolution and motivations of central concepts and models A broad view of the theory of computation's influence on science, technology, and society Extensive bibliography

An Introduction to Mathematical Finance with Applications
Springer Science & Business Media

This graduate-level text gives a thorough overview of the analysis of Boolean functions, beginning with the most basic definitions and proceeding to advanced topics.

Discrete Mathematics Cambridge University Press
Introducing the Theory of

Computation is the ideal text for any undergraduate, introductory course on formal languages, automata, and computability. The author provides a concise, yet complete, introduction to the important models of finite automata, grammars, and Turing machines, as well as to undecidability and the basics of complexity theory. Numerous problems, varying in level of difficulty, round out each chapter and allow students to test themselves on key topics. Answers to selected exercises are included as an appendix and a complete instructor's solutions manual is available on the text's website. Reactive Systems PHI Learning Pvt. Ltd.

Software -- Programming Techniques. **Computer Networks** MIT Press
If you want to learn how to program, working with Python is an excellent way to start. This hands-on guide takes you through the language a step at a time, beginning with basic programming concepts before moving on to functions, recursion, data structures, and object-oriented design. This second edition and its supporting code have been updated for Python 3. Through exercises in each chapter, you'll try out programming concepts as you learn them. Think Python is ideal for students at the high school or college level, as well as self-learners, home-schooled students, and professionals who

need to learn programming basics. Education
Beginners just getting their feet New and classical results in
wet will learn how to start with computational complexity,
Python in a browser. Start with the including interactive proofs,
basics, including language syntax PCP, derandomization, and
and semantics Get a clear quantum computation. Ideal for
definition of each programming graduate students.
concept Learn about values, *Algorithm Design* Addison
variables, statements, functions, Wesley Publishing Company
and data structures in a logical Want to learn how to program
progression Discover how to work and think like a computer
with files and databases Understand scientist? This practical
objects, methods, and object- guide gets you started on
oriented programming Use debugging your programming journey with
techniques to fix syntax, runtime, the help of Perl 6, the
and semantic errors Explore younger sister of the popular
interface design, data structures, Perl programming language.
and GUI-based programs through case Ideal for beginners, this
studies

Engineering and Chemical
Thermodynamics McGraw-Hill

hands-on book includes over 100 exercises with multiple solutions, and more than 1,000 code examples so you can quickly practice what you learn. Experienced programmers—especially those who know Perl 5—will also benefit. Divided into two parts, Think Perl 6 starts with basic concepts that every programmer needs to know, and then focuses on different programming paradigms and some more advanced programming techniques. With two semesters' worth of lessons, this book is the perfect teaching tool for computer science beginners in colleges and universities. Learn basic concepts including variables, expressions, statements, functions, conditionals, recursion, and loops. Understand commonly used basic data structures and the most useful algorithms. Dive into object-oriented programming, and learn how to construct your own types and methods to extend the language. Use grammars and regular expressions to analyze textual content. Explore how functional programming can help you make

your code simpler and more expressive

The Art of Multiprocessor Programming, Revised Reprint

Oxford University Press

Now you can clearly present even the most complex computational theory topics to your students with Sipser's distinct, market-leading INTRODUCTION TO THE THEORY OF COMPUTATION, 3E. The number one choice for today's computational theory course, this highly anticipated revision retains the unmatched clarity and thorough coverage that make

it a leading text for upper-level undergraduate and introductory graduate students. This edition continues author Michael Sipser's well-known, approachable style with timely revisions, additional exercises, and more memorable examples in key areas. A new first-of-its-kind theoretical treatment of deterministic context-free languages is ideal for a better understanding of parsing and LR(k) grammars. This edition's refined presentation ensures a trusted accuracy and clarity

that make the challenging study of computational theory accessible and intuitive to students while maintaining the subject's rigor and formalism. Readers gain a solid understanding of the fundamental mathematical properties of computer hardware, software, and applications with a blend of practical and philosophical coverage and mathematical treatments, including advanced theorems and proofs. INTRODUCTION TO THE THEORY OF COMPUTATION, 3E's comprehensive coverage makes

this an ideal ongoing reference tool for those studying theoretical computing. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Information, Physics, and Computation McGraw-Hill Science, Engineering & Mathematics In the new sixth edition, readers will be able to clearly see the relevance of accounting in their everyday lives. The authors introduce challenging accounting concepts with examples that are familiar to everyone, which helps

build motivation to learn the material. Accounting issues are also placed within the context of marketing, management, IT, and finance.

Quantum Computing Arden

Shakespeare

"Intended as an upper-level undergraduate or introductory graduate text in computer science theory," this book lucidly covers the key concepts and theorems of the theory of computation. The presentation is remarkably clear; for example, the "proof idea," which offers the reader an intuitive feel for how the proof was

constructed, accompanies many of the theorems and a proof. Introduction to the Theory of Computation covers the usual topics for this type of text plus it features a solid section on complexity theory--including an entire chapter on space complexity. The final chapter introduces more advanced topics, such as the discussion of complexity classes associated with probabilistic algorithms.

Financial Accounting Prentice Hall

"Primarily intended for a first-year undergraduate

course in programming"--Page 4
of cover.

Understanding Machine

Learning Cambridge University
Press

Computational complexity is
one of the most beautiful
fields of modern mathematics,
and it is increasingly
relevant to other sciences
ranging from physics to
biology. But this beauty is
often buried underneath
layers of unnecessary
formalism, and exciting
recent results like
interactive proofs, phase
transitions, and quantum

computing are usually
considered too advanced for
the typical student. This book
bridges these gaps by
explaining the deep ideas of
theoretical computer science
in a clear and enjoyable
fashion, making them
accessible to non-computer
scientists and to computer
scientists who finally want to
appreciate their field from a
new point of view. The authors
start with a lucid and playful
explanation of the P vs. NP
problem, explaining why it is
so fundamental, and so hard to
resolve. They then lead the

reader through the complexity of mazes and games; optimization in theory and practice; randomized algorithms, interactive proofs, and pseudorandomness; Markov chains and phase transitions; and the outer reaches of quantum computing. At every turn, they use a minimum of formalism, providing explanations that are both deep and accessible. The book is intended for graduate and undergraduate students, scientists from other areas who have long wanted to understand this

subject, and experts who want to fall in love with this field all over again.

Automata, Computability and Complexity John Wiley & Sons

Publisher description

The Robotics Primer Cambridge University Press

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book.

Algorithm Design introduces algorithms by looking at the real-world problems that motivate them. The book teaches students a range of design and analysis techniques for problems that arise in computing applications. The text

encourages an understanding of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science. August 6, 2009 Author, Jon Kleinberg, was recently cited in the New York Times for his statistical analysis research in the Internet age.

The Nature of Computation John Wiley & Sons
This text strikes a good balance between rigor and an intuitive approach to computer theory. Covers all the topics needed by computer scientists with a sometimes humorous approach that reviewers found "refreshing". It is easy to read and the coverage of mathematics is fairly simple so readers do not have to worry about proving theorems.

Instructor Manual Cambridge University Press
For upper level courses on Automata. Combining classic theory with unique applications, this crisp narrative is supported by abundant examples and clarifies key concepts by introducing important uses of techniques in real systems. Broad-ranging coverage allows instructors to easily customise course material to fit their unique requirements.

Springer
Taking a practical approach, this modern introduction to the theory of computation focuses on the study of problem solving through

computation in the presence of theoretical computer science
realistic resource constraints. The Theory of Computation explores questions and methods that characterize the next few years.
that are likely to have a significant impact on the practice of computing within theoretical computer science while relating all developments to practical issues in computing. The book establishes clear limits to computation, relates these limits to resource usage, and explores possible avenues of compromise through approximation and randomization. The book also provides an overview of current areas of research in