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**An Introduction to
Formal Languages and
Automata** - Peter Linz 1997
An Introduction to Formal

Languages & Automata
provides an excellent
presentation of the material
that is essential to an

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introductory theory of computation course. The text was designed to familiarize students with the foundations & principles of computer science & to strengthen the students' ability to carry out formal & rigorous mathematical argument. Employing a problem-solving approach, the text provides students insight into the course material by stressing intuitive motivation & illustration of ideas through straightforward explanations & solid mathematical proofs. By emphasizing learning through problem solving, students learn the material primarily through problem-type illustrative examples that show the motivation behind the concepts, as well as their connection to the theorems & definitions.

National Bureau of Standards Miscellaneous Publication - 1965

Computer Literature Bibliography: 1946-1963

- W. W. Youden 1965

Computer Literature Bibliography: 1964-1967 - W. W. Youden 1965

Hybrid Systems: Computation and Control

- Nancy Lynch 2007-10-28

This book constitutes the refereed proceedings of the Third International Workshop on Hybrid Systems: Computation and Control, HSCC 2000, held in Pittsburgh, PA, USA in March 2000.; The 32 revised full papers presented together with abstracts of four invited talks were carefully reviewed and selected from a total of 71 papers submitted.; The focus of the works presented is on modeling, control, synthesis, design and verification of hybrid systems.; Among the application areas covered are control of electromechanical systems, air traffic control, control of automated freeways, and

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chemical process control.

Introduction to Logic

Design - Svetlana N.

Yanushkevich 2008-01-25

With an abundance of insightful examples, problems, and computer experiments, Introduction to Logic Design provides a balanced, easy-to-read treatment of the fundamental theory of logic functions and applications to the design of digital devices and systems.

Requiring no prior knowledge of electrical circuits or electronics, it supplies the

15th Annual Symposium on Switching and Automata Theory - 1974

Language and Automata Theory and Applications -

Adrian-Horia Dediu

2015-02-23

This book constitutes the refereed proceedings of the 9th International Conference on Language and Automata Theory and Applications, LATA 2015, held in Nice, France in

March 2015. The 53 revised full papers presented together with 5 invited talks were carefully reviewed and selected from 115 submissions. The papers cover the following topics: algebraic language theory; algorithms for semi-structured data mining, algorithms on automata and words; automata and logic; automata for system analysis and program verification; automata networks, concurrency and Petri nets; automatic structures; cellular automata, codes, combinatorics on words; computational complexity; data and image compression; descriptive complexity; digital libraries and document engineering; foundations of finite state technology; foundations of XML; fuzzy and rough languages; grammatical inference and algorithmic learning; graphs and graph transformation; language varieties and semigroups; parallel and regulated

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rewriting; parsing; patterns; string and combinatorial issues in computational biology and bioinformatics; string processing algorithms; symbolic dynamics; term rewriting; transducers; trees, tree languages and tree automata; weighted automata.

Provability, Computability and Reflection - Lev D. Beklemishev 2000-04-01
Provability, Computability and Reflection
MILCOM '98 - 1998

Spectral Logic and Its Applications for the Design of Digital Devices
- Mark G. Karpovsky
2008-07-14
Spectral techniques facilitate the design and testing of today's increasingly complex digital devices There is heightened interest in spectral techniques for the design of digital devices dictated by ever increasing demands on technology that often

cannot be met by classical approaches. Spectral methods provide a uniform and consistent theoretic environment for recent achievements in this area, which appear divergent in many other approaches. Spectral Logic and Its Applications for the Design of Digital Devices gives readers a foundation for further exploration of abstract harmonic analysis over finite groups in the analysis, design, and testing of digital devices. After an introduction, this book provides the essential mathematical background for discussing spectral methods. It then delves into spectral logic and its applications, covering: * Walsh, Haar, arithmetic transform, Reed-Muller transform for binary-valued functions and Vilenkin-Chrestenson transform, generalized Haar, and other related transforms for multiple-valued functions * Polynomial expressions and decision diagram

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representations for switching and multiple-value functions * Spectral analysis of Boolean functions * Spectral synthesis and optimization of combinational and sequential devices * Spectral methods in analysis and synthesis of reliable devices * Spectral techniques for testing computer hardware This is the authoritative reference for computer science and engineering professionals and researchers with an interest in spectral methods of representing discrete functions and related applications in the design and testing of digital devices. It is also an excellent text for graduate students in courses covering spectral logic and its applications.

College of Engineering - University of Michigan. College of Engineering 1981

Theory of Computation and Application (2nd Revised Edition) - S. R.

Jena 2020-03-27

About the Book: This book is intended for the students who are pursuing courses in B.Tech/B.E. (CSE/IT), M.Tech/M.E. (CSE/IT), MCA and M.Sc (CS/IT). The book covers different crucial theoretical aspects such as of Automata Theory, Formal Language Theory, Computability Theory and Computational Complexity Theory and their applications. This book can be used as a text or reference book for a one-semester course in theory of computation or automata theory. It includes the detailed coverage of □ Introduction to Theory of Computation □ Essential Mathematical Concepts □ Finite State Automata □ Formal Language & Formal Grammar □ Regular Expressions & Regular Languages □ Context-Free Grammar □ Pushdown Automata □ Turing Machines □ Recursively Enumerable & Recursive Languages □ Complexity

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Theory Key Features: « Presentation of concepts in clear, compact and comprehensible manner « Chapter-wise supplement of theorems and formal proofs « Display of chapter-wise appendices with case studies, applications and some pre-requisites « Pictorial two-minute drill to summarize the whole concept « Inclusion of more than 200 solved with additional problems « More than 130 numbers of GATE questions with their keys for the aspirants to have the thoroughness, practice and multiplicity « Key terms, Review questions and Problems at chapter-wise termination What is New in the 2nd Edition?? « Introduction to Myhill-Nerode theorem in Chapter-3 « Updated GATE questions and keys starting from the year 2000 to the year 2018 « Practical Implementations through JFLAP Simulator About the Authors: Soumya Ranjan Jena is the Assistant

Professor in the School of Computing Science and Engineering at Galgotias University, Greater Noida, U.P., India. Previously he has worked at GITA, Bhubaneswar, Odisha, K L Deemed to be University, A.P and AKS University, M.P, India. He has more than 5 years of teaching experience. He has been awarded M.Tech in IT, B.Tech in CSE and CCNA. He is the author of Design and Analysis of Algorithms book published by University Science Press, Laxmi Publications Pvt. Ltd, New Delhi. Santosh Kumar Swain, Ph.D, is an Professor in School of Computer Engineering at KIIT Deemed to be University, Bhubaneswar, Odisha. He has over 23 years of experience in teaching to graduate and post-graduate students of computer engineering, information technology and computer applications. He has published more than 40 research papers in

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International Journals and Conferences and one patent on health monitoring system.

Introduction to Automata Theory, Languages, and Computation - John E. Hopcroft 2014

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.

Design Theory and Computer Science - Subrata Dasgupta 1991-05-16

The author examines logic and methodology of design from the perspective of computer science.

Computers provide the

context for this examination both by discussion of the design process for hardware and software systems and by consideration of the role of computers in design in general. The central question posed by the author is whether or not we can construct a theory of design.

Computer Literature Bibliography - United States. National Bureau of Standards 1965

University of Michigan Official Publication - 1968

The Publishers' Trade List Annual - 1979

Solutions to Selected Problems to Accompany Switching and Finite Automata Theory - Igal Kohavi 1970

Digest of Papers : FTCS - 1982

Automata and Computability - Dexter C. Kozen 2013-11-11

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These are my lecture notes from CS381/481: Automata and Computability Theory, a one-semester senior-level course I have taught at Cornell University for many years. I took this course myself in the fall of 1974 as a first-year Ph.D. student at Cornell from Juris Hartmanis and have been in love with the subject ever since. The course is required for computer science majors at Cornell. It exists in two forms: CS481, an honors version; and CS381, a somewhat gentler paced version. The syllabus is roughly the same, but CS481 goes deeper into the subject, covers more material, and is taught at a more abstract level. Students are encouraged to start off in one or the other, then switch within the first few weeks if they find the other version more suitable to their level of mathematical skill. The purpose of this course is twofold: to introduce computer science students

to the rich heritage of models and abstractions that have arisen over the years; and to develop the capacity to form abstractions of their own and reason in terms of them.

Control Abstracts - 1966

Introduction to the Theory of Finite Automata - Natan Efimovich Kobrinskiĭ 1965

Computers in Education Journal - 1991

Computer Algorithms - Jun-ichi Aoe 1994-06-13
Introduces the basic concepts and characteristics of string pattern matching strategies and provides numerous references for further reading. The text describes and evaluates the BF, KMP, BM, and KR algorithms, discusses improvements for string pattern matching machines, and details a technique for detecting and removing the redundant

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operation of the AC machine. Also explored are typical problems in approximate string matching. In addition, the reader will find a description for applying string pattern matching algorithms to multidimensional matching problems, an investigation of numerous hardware-based solutions for pattern matching, and an examination of hardware approaches for full text search.

Proceedings of the Fifth Annual ACM-SIAM

Symposium on Discrete Algorithms - 1994-01-01

The January 1994

Symposium was jointly sponsored by the ACM Special Interest Group for Automata and

Computability Theory and the SIAM Activity Group on Discrete Mathematics.

Among the topics in 79

(unrefereed) papers:

comparing point sets under projection; on-line search in a simple polygon; low-

degree tests; maximal empty ellipsoids; roots of a polynomial and its derivatives; dynamic algebraic algorithms; fast comparison of evolutionary trees; an efficient algorithm for dynamic text editing; and tight bounds for dynamic storage allocation.

No index. Annotation copyright by Book News, Inc., Portland, OR

Applied Automata Theory

- Julius T. Tou 2013-10-22

Applied Automata Theory provides an engineering style of presentation of some of the applied work in the field of automata theory. Topics covered range from algebraic foundations and recursive functions to regular expressions, threshold logic, and switching circuits. Coding problems and stochastic processes are also discussed, along with content addressable memories, probabilistic reliability, and Turing machines. Much emphasis is placed on engineering

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applications. Comprised of nine chapters, this book first deals with the algebraic foundations of automata theory, focusing on concepts such as semigroups, groups and homomorphisms, and partially ordered sets and lattices, as well as congruences and other relations. The reader is then introduced to regular expressions; stochastic automata and discrete systems theory; and switching networks as models of discrete stochastic processes. Subsequent chapters explore applications of automata theory in coding; content addressable and distributed logic memories; recursive functions and switching-circuit theory; and synthesis of a cellular computer. The book concludes with an assessment of the fundamentals of threshold logic. This monograph is intended for graduates or advanced undergraduates

taking a course in information science or a course on discrete systems in modern engineering curriculum.

Automaton Theory and Learning Systems: Edited by D. J. Stewart from Contributions Selected by Stafford Beer, F. H. George and the Late Richard Goodman - David John Stewart 1967

NBS Special Publication - 1968

Cybernetics Abstracts - 1972

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Theory of Computation
and Compilers book with
600 question answer as
per updated syllabus** -

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Science unit-8

Hybrid Dynamical Systems -
Hai Lin 2021-12-20

A graduate-level textbook,
Hybrid Dynamical Systems

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provides an accessible and comprehensive introduction to the theory of hybrid systems. It emphasizes results that are central to a good understanding of the importance and role of such systems. The authors have developed the materials in this book while teaching courses on hybrid systems, cyber-physical systems, and formal methods. This textbook helps students to become familiar with both the major approaches coloring the study of hybrid dynamical systems. The computer science and control systems points of view - emphasizing discrete dynamics and real time, and continuous dynamics with switching, respectively - are each covered in detail. The book shows how the behavior of a system with tightly coupled cyber- (discrete) and physical (continuous) elements can best be understood by a model simultaneously encompassing all the dynamics and their

interconnections. The theory presented is of fundamental importance in a wide range of emerging fields from next-generation transportation systems to smart manufacturing. Features of the text include: extensive use of examples to illustrate the main concepts and to provide insights additional to those acquired from the main text; chapter summaries enabling students to assess their progress; end-of-chapter exercises, which test learning as a course proceeds; an instructor's guide showing how different parts of the book can be exploited for different course requirements; and a solutions manual, freely available for download by instructors adopting the book for their teaching. Access to MATLAB and Stateflow is not required but would be beneficial, especially for exercises in which simulations are a key tool.

Switching and Finite Automata Theory - Zvi Kohavi 2009-10-22

Understand the structure, behaviour, and limitations of logic machines with this thoroughly updated third edition. Many new topics are included, such as CMOS gates, logic synthesis, logic design for emerging nanotechnologies, digital system testing, and asynchronous circuit design, to bring students up-to-speed with modern developments. The intuitive examples and minimal formalism of the previous edition are retained, giving students a text that is logical and easy to follow, yet rigorous. Kohavi and Jha begin with the basics, and then cover combinational logic design and testing, before moving on to more advanced topics in finite-state machine design and testing. Theory is made easier to understand with 200 illustrative examples, and students can test their understanding with over

350 end-of-chapter review questions.

SWITCHING AND AUTOMATA THEORY. - A. Gill 1970

The research under the grant consisted of the following projects: (1) Extensive development of the theory of linear sequential circuits; (2) Solution of various problems in the theory of finite-state automata, including the counting of such automata, error correction capability, realization by input-output relations, periodicity properties and equivalence problems; (3) Solution of problems in the theory of stochastic automata and time-varying automata; (4) Research in formal languages, including context-free languages and multi-tape, multi-head pushdown automata; and (5) Solution of various operations-research type problems, such as optimization algorithms for finite, directed, weighted

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graphs, and the 'change-making problem'.

CAST Methods in Modelling - Franz Pichler
2012-12-06

Microtechnologies and their corresponding CAD tools have meanwhile reached a level of sophistication that requires the application of theoretical means on all modelling levels of design and analysis. Also, there is a growing need for a scientific approach in modelling again. Many concepts provided by Systems Theory again turn out to be of major importance. This is especially valid for the design of "machines with intelligent behaviour".

When dealing with complex systems, the engineering design has to be supported by CAD tools. Consequently, the methods of Systems Theory must also get computerized. The newly established field of "Computer Aided Systems Theory" (CAST) is a first effort in this direction. The

goal of CAST research and development is to provide "Systems Theory Method Banks" which can be used in education and to provide a platform for the migration of CAST methods into existing CAD tools. This book, basing on different research and development projects in CAST, is written for engineers who are interested in using and developing CAST systems, particularly in the field of Information and Systems Engineering.

I.E.E.E. Conference Record of ... Annual Symposium on Switching and Automata Theory - 1966

Automata Theory - University of Michigan. Engineering Summer Conferences 1963

Automaton Theory and Learning Systems - David John Stewart 1967

Automation and Remote Control - 1980

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