This book constitutes the proceedings of the 13th International Computer Science Symposium in Russia, CSR 2018, held in Moscow, Russia, in May 2018. The 24 full papers presented together with 7 invited lectures were carefully reviewed and selected from 42 submissions. The papers cover a wide range of topics such as algorithms and data structures; combinatorial optimization; constraint solving; computational complexity; cryptography; combinatorics in computer science; formal languages and automata; algorithms for concurrent and distributed systems; networks; and proof theory and applications of logic to computer science.
Electrical engineering is a protean profession. Today the field embraces many disciplines that seem far removed from its roots in the telegraph, telephone, electric lamps, motors, and generators. To a remarkable extent, this chronicle of change and growth at a single institution is a capsule history of the discipline and profession of electrical engineering as it developed worldwide. Even when MIT was not leading the way, the department was usually quick to adapt to changing needs, goals, curricula, and research programs. What has remained constant throughout is the dynamic interaction of teaching and research, flexibility of administration, the interconnections with industrial progress and national priorities. The book's text and many photographs introduce readers to the renowned teachers and researchers who are still well known in engineering circles, among them: Vannevar Bush, Harold Hazen, Edward Bowles, Gordon Brown, Harold Edgerton, Ernst Guillemin, Arthur von Hippel, and Jay Forrester. The book covers the department's major areas of activity - electrical power systems, servomechanisms, circuit theory, communications theory, radar and microwaves (developed first at the famed Radiation Laboratory during World War II), insulation and dielectrics, electronics, acoustics, and computation. This rich history of accomplishments shows moreover that years before "Computer Science" was added to the department's name such pioneering results in computation and control as Vannevar Bush's Differential Analyzer, early cybernetic devices and numerically controlled servomechanisms, the Whirlwind computer, and the evolution of time-sharing computation had already been achieved. Karl Wildes has been associated with the Department of Electrical Engineering and Computer Science since the 1920s, and is now Professor Emeritus. Nilo Lindgren, an electrical engineering graduate of MIT and professional scientific and technical journalist for many years, is at present affiliated with the Electric Power Research Institute in Palo Alto, California.

The world's most effective CPA exam prep system – Financial Accounting and Reporting module Wiley CPAexcel Exam Review is the world's most trusted study guide for the Certified Public Accountant's exam – complete, comprehensive, and updated to align with the latest exam content. With 2,800 practice questions and solutions across four volumes, the unique modular format helps you organize your study program, zeroing in on areas that need work. This volume, Financial Accounting and Reporting, contains all current AICPA content requirements, providing total coverage of this section of the exam. You'll get detailed outlines and study tips, simulation and multiple choice questions, and skill-building problems that have made this guide the most effective CPA prep system for over thirty years. The uniform CPA exam is updated annually to include new laws, regulations, and guidelines, so it's important that your study guide be up to date as well. Wiley CPAexcel Exam Review is updated annually to reflect the latest version of the exam, and is the number-one bestselling CPA study guide in the world because it provides full, comprehensive coverage of all exam content, and more practice questions than any other guide – many of which are taken directly from past exams. The unique format allows you to: Identify, target, and master problem areas section by section Learn
how to logically build your knowledge stores for better recall Practice with thousands of sample questions taken from past exams Review all exam content, including the newest guidelines and regulations No one wants surprises on exam day, and thorough preparation is the key to successful performance. Whether you’re embarking on a new study program, or just need a quick refresher before the exam, Wiley CPAexcel Exam Review is proven to be the most current, complete, comprehensive prep you can get.

Continual advancements in web technology have highlighted the need for formatted systems that computers can utilize to easily read and sift through the hundreds of thousands of data points across the internet. Therefore, having the most relevant data in the least amount of time to optimize the productivity of users becomes a priority. Semantic Web Science and Real-World Applications provides emerging research exploring the theoretical and practical aspects of semantic web science and real-world applications within the area of big data. Featuring coverage on a broad range of topics such as artificial intelligence, social media monitoring, and microblogging recommendation systems, this book is ideally designed for IT consultants, academics, professionals, and researchers of web science seeking the current developments, requirements and standards, and technology spaces presented across academia and industries.

Produced as part of a government funded project, this book will be a practical, but research-based guide for all those in higher and further education who wish to use computers to assess their students’ learning.

First published in 1985, the Handbook for Achieving Gender Equity Through Education quickly established itself as the essential reference work concerning gender equity in education. This new, expanded edition provides a 20-year retrospective of the field, one that has the great advantage of documenting U.S. national data on the gains and losses in the efforts to advance gender equality through policies such as Title IX, the landmark federal law prohibiting sex discrimination in education, equity programs and research. Key features include: Expertise – Like its predecessor, over 200 expert authors and reviewers provide accurate, consensus, research-based information on the nature of gender equity challenges and what is needed to meet them at all levels of education. Content Area Focus – The analysis of gender equity within specific curriculum areas has been expanded from 6 to 10 chapters including mathematics, science, and engineering. Global/Diversity Focus – Global gender equity is addressed in a separate chapter as well as in numerous other chapters. The expanded section on gender equity strategies for diverse populations contains seven chapters on African Americans, Latina/os, Asian and Pacific Island Americans, American Indians,
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gifted students, students with disabilities, and lesbian, gay, bisexual, and transgender students. Action Oriented – All chapters contain practical recommendations for making education activities and outcomes more gender equitable. A final chapter consolidates individual chapter recommendations for educators, policymakers, and researchers to achieve gender equity in and through education. New Material – Expanded from 25 to 31 chapters, this new edition includes: *more emphasis on male gender equity and on sexuality issues; *special within population gender equity challenges (race, ability and disability, etc); *coeducation and single sex education; *increased use of rigorous research strategies such as meta-analysis showing more sex similarities and fewer sex differences and of evaluations of implementation programs; *technology and gender equity is now treated in three chapters; *women’s and gender studies; *communication skills relating to English, bilingual, and foreign language learning; and *history and implementation of Title IX and other federal and state policies. Since there is so much misleading information about gender equity and education, this Handbook will be essential for anyone who wants accurate, research-based information on controversial gender equity issues—journalists, policy makers, teachers, Title IX coordinators, equity trainers, women’s and gender study faculty, students, and parents.

This book constitutes the thoroughly refereed post-proceedings of the International Dagstuhl-Seminar on Empirical Software Engineering, held in Dagstuhl Castle, Germany in June 2006. The 54 revised full papers in this state-of-the-art survey are organized in topical sections on the empirical paradigm, measurement and model building, technology transfer and education, as well as roadmapping.

Welcome to the world of football-mad Troy Brown, a typical fifteen-year-old, with a loving family, a tight-knit group of friends, and a nice house in Cowes on the Isle of Wight. Materially, he has a comfortable life - but then no hormone-ridden, angst-filled teenager would ever describe their life as comfortable, and Troy was no exception, plagued as he was by ‘the whole world is against me’ complex, ‘no girlfriend’ syndrome, the pains of unrequited love (or lust) and the usual hoard of teenage frustrations and obsessions. A privileged peek into his very private ‘warts and all’ 2003 diary reveals the transformation of his boring, ordinary life, as Troy tries to negotiate the many twists and turns in what was to become the most extraordinary year of his life, fraught with family secrets, misunderstandings, dangerous liaisons, challenging adventures, shocking realities and unexpected outcomes, interspersed with teenage insights into the state of the world, including war, crime, death and disease. As you travel with Troy on his one-year life-changing journey, you will undoubtedly laugh at the adolescent humour, cry at his misfortunes, sympathise with his plights and empathise with his feelings as he works through his personal traumas and is forced to learn by
his mistakes. Be warned, however: those of a sensitive disposition may also be shocked by some of the diary’s content, possibly offended, but you are, after all, delving into the grimy mind of a pubescent youth!

Software engineering requires specialized knowledge of a broad spectrum of topics, including the construction of software and the platforms, applications, and environments in which the software operates as well as an understanding of the people who build and use the software. Offering an authoritative perspective, the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field. More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy-to-read entries that cover software requirements, design, construction, testing, maintenance, configuration management, quality control, and software engineering management tools and methods. Editor Phillip A. Laplante uses the most universally recognized definition of the areas of relevance to software engineering, the Software Engineering Body of Knowledge (SWEBOK®), as a template for organizing the material. Also available in an electronic format, this encyclopedia supplies software engineering students, IT professionals, researchers, managers, and scholars with unrivaled coverage of the topics that encompass this ever-changing field. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

The field of computer science (CS) is currently experiencing a surge in undergraduate degree production and course enrollments, which is straining program resources at many institutions and causing concern among faculty and administrators about how best to respond to the rapidly growing demand. There is also significant interest about what this growth will mean for the future of CS programs, the role of computer science in academic institutions, the field as a whole, and U.S. society more broadly. Assessing and Responding to the Growth of Computer Science Undergraduate Enrollments seeks to provide a better understanding of the current trends in computing enrollments in the context of past trends. It examines drivers of the current enrollment surge, relationships between the surge and current and potential gains in diversity in the field, and the potential impacts of responses to the increased demand for computing in higher education, and it considers the likely effects of those
responses on students, faculty, and institutions. This report provides recommendations for what institutions of higher education, government agencies, and the private sector can do to respond to the surge and plan for a strong and sustainable future for the field of CS in general, the health of the institutions of higher education, and the prosperity of the nation.

For over half a century, Boris (Boaz) Trakhtenbrot has made seminal contributions to virtually all of the central areas of theoretical computer science. This festschrift volume readily illustrates the profound influence he has had on the field.

This book constitutes the revised selected papers of the 43rd International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2017, held in Eindhoven, The Netherlands, in June 2017. The 31 full papers presented in this volume were carefully reviewed and selected from 71 submissions. They cover a wide range of areas, aiming at connecting theory and applications by demonstrating how graph-theoretic concepts can be applied in various areas of computer science. Another focus is on presenting recent results and on identifying and exploring promising directions of future research.

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

This book constitutes the carefully refereed post-proceedings of the 22nd International Workshop on Graph-Theoretic Concepts in Computer Science, WG '96, held in Cadenabbia, Italy, in June 1996. The 30 revised full papers presented in the volume were selected from a total of 65 submissions. This collection documents the state of the art in the area. Among the topics addressed are graph algorithms, graph rewriting, hypergraphs, graph drawing, networking, approximation and optimization, trees, graph computation, and others.
This book constitutes the proceedings of the Third International Conference on Algebra and Coalgebra in Computer Science, CALCO 2009, formed in 2005 by joining CMCS and WADT. This year the conference was held in Udine, Italy, September 7-10, 2009. The 23 full papers were carefully reviewed and selected from 42 submissions. They are presented together with four invited talks and workshop papers from the CALCO-tools Workshop. The conference was divided into the following sessions: algebraic effects and recursive equations, theory of coalgebra, coinduction, bisimulation, stone duality, game theory, graph transformation, and software development techniques.

This volume is dedicated to Professor Arto Salomaa on the occasion of his 60th birthday. The 32 invited papers contained in the volume were presented at the festive colloquium, organized by Hermann Maurer at Graz, Austria, in June 1994; the contributing authors are well-known scientists with special relations to Professor Salomaa as friends, Ph.D. students, or co-authors. The volume reflects the broad spectrum of Professor Salomaa's research interests in theoretical computer science and mathematics with contributions particularly to automata theory, formal language theory, mathematical logic, computability, and cryptography. The appendix presents Professor Salomaa's curriculum vitae and lists the more than 300 papers and 9 books he published.

This book constitutes the thoroughly refereed post-conference proceedings of the 40th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2014, held in Nouan-le-Fuzelier, France, in June 2014. The 32 revised full papers presented were carefully reviewed and selected from 80 submissions. The book also includes two invited papers. The papers cover a wide range of topics in graph theory related to computer science, such as design and analysis of sequential, parallel, randomized, parameterized and distributed graph and network algorithms; structural graph theory with algorithmic or complexity applications; computational complexity of graph and network problems; graph grammars, graph rewriting systems and graph modeling; graph drawing and layouts; computational geometry; random graphs and models of the web and scale-free networks; and support of these concepts by suitable implementations and applications.
The 33rd International Conference “Workshop on Graph-Theoretic Concepts in Computer Science” (WG 2007) took place in the Conference Center in old castle in Dornburg near Jena, Germany, June 21–23, 2007. The approximately 80 participants came from various countries all over the world, among them Brazil, Canada, the Czech Republic, France, UK, Greece, Hungary, Italy, Japan, The Netherlands, Norway, Sweden, Taiwan, and the USA. WG 2007 continued the series of 32 previous WG conferences. Since 1975, the WG conference has taken place 20 times in Germany, four times in The Netherlands, twice in Austria as well as once in Italy, Slovakia, Switzerland, the Czech Republic, France and in Norway. The WG conference traditionally aims at uniting theory and practice by demonstrating how graph-theoretic concepts can be applied to various areas in computer science, or by extracting new problems from applications. The goal is to present recent research results and to identify and explore directions of future research. The continuing interest in the WG conferences was reflected in the high number of submissions; 99 papers were submitted and in an evaluation process with four reports per submission, 30 papers were accepted by the Program Committee for the conference. Due to the high number of submissions and the limited schedule of 3 days, various good papers could not be accepted. There were invited talks by Ming-Yang Kao (Evanston, Illinois) on algorithmic DNA assembly, and by Klaus Jansen (Kiel, Germany) on approximation algorithms for geometric intersection graphs.

The Wiley CPAexcel Study Guides have helped over a half million candidates pass the CPA Exam. This volume contains all current AICPA content requirements in Regulation (REG). The comprehensive four-volume paperback set (AUD, BEC, FAR, REG) reviews all four parts of the CPA Exam. With 3,800 multiple-choice questions. The CPA study guides provide the detailed information candidates need to master or reinforce tough topic areas. The content is separated into 48 modules. Unique modular format—helps candidates zero in on areas that need work, organize their study program, and concentrate their efforts. Comprehensive questions—over 3,800 multiple-choice questions and their solutions in the complete set (AUD, BEC, FAR, REG). Guidelines, pointers, and tips show how to build knowledge in a logical and reinforcing way. Arms test-takers with detailed text explanations and skill-building problems to help candidates identify, focus on, and master the specific topics that may need additional reinforcement. Available in print format.

The Handbook of Modal Logic contains 20 articles, which collectively introduce contemporary modal logic, survey current research, and indicate the way in which the field is developing. The articles survey the field from a wide variety of perspectives: the underlying theory is explored in depth, modern computational approaches are treated, and six major applications areas of
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modal logic (in Mathematics, Computer Science, Artificial Intelligence, Linguistics, Game Theory, and Philosophy) are surveyed. The book contains both well-written expository articles, suitable for beginners approaching the subject for the first time, and advanced articles, which will help those already familiar with the field to deepen their expertise. Please visit: http://people.uleth.ca/~woods/RedSeriesPromo_WP/PubSLPR.html - Compact modal logic reference - Computational approaches fully discussed - Contemporary applications of modal logic covered in depth

Beyond McDonaldization provides new concepts of higher education for the twenty-first century in a unique manner, challenging much that is written in mainstream texts. This book undertakes a reassessment of the growth of McDonaldization in higher education by exploring how the application of Ritzer’s four features efficiency, predictability, calculability and control has become commonplace. This wide-ranging text discusses arguments surrounding the industrialisation of higher education, with case studies and contributions from a wide range of international authors. Written in an accessible style, Beyond McDonaldization examines questions such as: Can we regain academic freedom whilst challenging the McDonaldization of thought and ideas? Is a McDonaldization of every aspect of academic life inevitable? Will the new focus on student experience damage young people? Why is a McDonaldized education living on borrowed time? Is it possible to recreate the university of the past or must we start anew? Does this industrialisation meet the educational needs of developing economies? This book brings international discussions on the changing world of higher education and the theory of McDonaldization together, seeking to provide a positive future vision of higher education. Analysing and situating the discussion of higher education within a wider social, political and cultural context, this ground-breaking text will have a popular appeal with students, academics and educationalists.

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