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Theory and Applications Cambridge University Press
What the experts have to say about Model-Based Testing for Embedded Systems: "This book is exactly what is needed at the exact right time in this fast-growing area. From its beginnings over 10 years ago of deriving tests from UML statecharts, model-based testing has matured into a topic with both breadth and depth. Testing embedded systems is a natural application of MBT, and this book hits the nail exactly on the head. Numerous topics are presented clearly, thoroughly, and concisely in this cutting-edge book. The authors are world-class leading experts in this area and teach us well-used and validated techniques, along with new ideas for solving hard problems. "It is rare that a book can take recent research advances and present them in a form ready for practical use, but this book accomplishes that and more. I am anxious to recommend this in my consulting and to teach a new class to my students." —Dr. Jeff Offutt, professor of software engineering, George Mason University, Fairfax, Virginia, USA "This handbook is the best resource I am aware of on the automated testing of embedded systems. It is thorough, comprehensive, and authoritative. It covers all important technical and scientific aspects but also provides highly interesting insights into the state of practice of model-based testing for embedded systems." —Dr. Lionel C. Briand, IEEE Fellow, Simula Research Laboratory, Lysaker, Norway, and professor at the University of Oslo, Norway "As model-based testing is entering the mainstream, such a comprehensive and intelligible book is a must-read for anyone looking for more information about improved testing methods for embedded systems. Illustrated with numerous aspects of these techniques from many contributors, it gives a clear picture of what the state of the art is today." —Dr. Bruno Legeard, CTO of Smartesting, professor of Software Engineering at the University of Franche-Comt é , Besan ç on, France, and co-author of Practical Model-Based Testing **Proceedings of the 9th fib International PhD Symposium in Civil Engineering : Karlsruhe Institute of Technology (KIT), 22 - 25 July 2012, Karlsruhe, Germany** Springer Science & Business Media

With everything readers need to know about how to execute their research project, this book is written specifically for information systems (IS) and computing students. It introduces key quantitative and qualitative research methods, makes sense of underlying philosophies, and will help readers navigate and assess existing published academic papers. Throughout readers are supported by pedagogical features such as learning objectives, explanations, discussion questions, evaluation guides and suggestions for further reading.

Foundations, Theory, and Practice CRC Press
Property testing is concerned with the design of super-fast algorithms for the structural analysis of large quantities of data. The aim is to unveil global features of the data, such as determining whether the data has a particular property or estimating global parameters. Remarkably, it is possible for decisions to be made by accessing only a small portion of the data. Property testing focuses on properties and parameters that go beyond simple statistics. This book provides an extensive and authoritative introduction to property testing. It provides a wide range of algorithmic techniques for the design and analysis of tests for algebraic properties, properties of Boolean functions, graph properties, and properties of distributions.

JAPHETH KOGEI
The two-volume set LNCS 7609 and 7610 constitutes the thoroughly refereed proceedings of the 5th International Symposium on Leveraging Applications of Formal Methods, Verification and Validation, held in Heraklion, Crete, Greece, in October 2012. The two volumes contain papers presented in the topical sections on adaptable and evolving software for eternal systems, approaches for mastering change, runtime verification: the application perspective, model-based testing and model inference, learning techniques for software verification and validation, LearnLib tutorial: from finite automata to register interface programs, RERS grey-box challenge 2012, Linux driver verification, bioscientific data processing and modeling, process and data integration in the networked healthcare, timing constraints: theory meets practice, formal methods for the development and certification of X-by-wire control systems, quantitative modelling and analysis, software aspects of robotic systems, process-oriented geoinformation systems and applications, handling heterogeneity in formal development of HW and SW Systems.

Encyclopedia of Parallel Computing Springer Nature
Model-driven software development drastically alters the software development process, which is characterized by a high degree of innovation and productivity. Emerging Technologies for the Evolution and Maintenance of Software Models contains original academic work about current research and research projects related to all aspects affecting the maintenance, evolution, and reengineering (MER), as well as long-term management, of software models. The mission of this book is to present a comprehensive and central overview of new and emerging trends in software model research and to provide concrete results from ongoing developments in the field.

Artificial Intelligence in Education IGI Global
Devising tests that evaluate a nation ’ s educational standing and implement efficacious educational reforms requires a careful balance among the contributions of technology, psychometrics, test design, and the learning sciences. Unlike other forms of adaptive testing, multistage testing (MST) is highly suitable for testing educational achievement because it can be adapted to educational surveys and student testing. Computerized Multistage Testing: Theory and Applications covers the methodologies, underlying technology, and implementation aspects of this type of test design. The book discusses current scientific perspectives and practical considerations for each step involved in setting up an MST program. It covers the history of MST, test design and implementation for various purposes, item pool

development and maintenance, IRT-based and classical test theory-based methodologies for test assembly, routing and scoring, equating, test security, and existing software. It also explores current research, existing operational programs, and innovative future assessments using MST. Intended for psychologists, social scientists, and educational measurement scientists, this volume provides the first unified source of information on the design, psychometrics, implementation, and operational use of MST. It shows how to apply theoretical statistical tools to testing in novel and useful ways. It also explains how to explicitly tie the assumptions made by each model to observable (or at least inferable) data conditions. Winner of the 2016 AERA Award for Significant Contribution to Educational Measurement and Research Methodology The 2016 American Education Research Association (AERA) Div. D award committee for Significant Contributions to Educational Measurement and Research Methodology has recognized unanimously this collaborative work advancing the theory and applications of computerized MST. This annual award recognizes published research judged to represent a significant conceptual advancement in the theory and practice of educational measurement and/or educational research methodology. The 2016 award was made under the heading: Measurement, Psychometrics, and Assessment. This collective work, published in 2014 as an edited volume titled Computerized Multistage Testing: Theory and Applications, was cited by the committee both for the originality of the conceptual foundations presented in support of multistage testing and for arguing persuasively for its potential impact on the practice of educational measurement.

International Workshop, LCC '94, Indianapolis, IN, USA, October 13-16, 1994. Selected Papers
Peterson's
"This book offers a high interdisciplinary exchange of ideas pertaining to the philosophy of computer science, from philosophical and mathematical logic to epistemology, engineering, ethics or neuroscience experts and outlines new problems that arise with new tools"--Provided by publisher.
Women's Under-Representation in the Engineering and Computing Professions: Fresh Perspectives on a Complex Problem Springer

The advent of supercomputers has brought computational fluid dynamics (CFD) to the forefront as a tool to analyze increasingly complex simulation scenarios in many fields. Computational aerodynamics problems are also increasingly moving towards being coupled, multi-physics and multi-scale with complex, moving geometries. The latter presents severe geometry handling and meshing challenges. Simulations also frequently use formal design optimization processes. This book explains the evolution of CFD and provides a comprehensive overview of the plethora of tools and methods available for solving complex scenarios while exploring the future directions and possible outcomes. Using numerous examples, illustrations and computational methods the author discusses turbulence modeling, pre and post processing, coupled solutions, the importance of design optimization, multiphysics problems, reduced order models, and large scale computations and the future of CFD. Advanced Computational Fluid and Aerodynamics is suitable for audiences engaged in computational fluid dynamics including advanced undergraduates, researchers and industrial practitioners.

Emerging Technologies in Computing Springer Science & Business Media
Peterson's Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources contains a wealth of information on colleges and universities that offer graduate work in these exciting fields. The institutions listed include those in the United States and Canada, as well international institutions that are accredited by U.S. accrediting bodies. Up-to-date information, collected through Peterson's Annual Survey of Graduate and Professional Institutions, provides valuable information on degree offerings, professional accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, degree requirements, entrance requirements, expenses, financial support, faculty research, and unit head and application contact information. Readers will find helpful links to in-depth descriptions that offer additional detailed information about a specific program or department, faculty members and their research, and much more. In addition, there are valuable articles on financial assistance, the graduate admissions process, advice for international and minority students, and facts about accreditation, with a current list of accrediting agencies.

Testing Software and Systems Peterson's
Containing over 300 entries in an A-Z format, the Encyclopedia of Parallel Computing provides easy, intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing. Topics for this comprehensive reference were selected, written, and peer-reviewed by an international pool of distinguished researchers in the field. The Encyclopedia is broad in scope, covering machine organization, programming languages, algorithms, and applications. Within each area, concepts, designs, and specific implementations are presented. The highly-structured essays in this work comprise synonyms, a definition and discussion of the topic, bibliographies, and links to related literature. Extensive cross-references to other entries within the Encyclopedia support efficient, user-friendly searchers for immediate access to useful information. Key concepts presented in the Encyclopedia of Parallel Computing include; laws and metrics; specific numerical and non-numerical algorithms; asynchronous algorithms; libraries of subroutines; benchmark suites; applications; sequential consistency and cache coherency; machine classes such as clusters, shared-memory multiprocessors, special-purpose machines and dataflow machines; specific machines such as Cray supercomputers, IBM ’ s cell processor and Intel ’ s multicore machines; race detection and auto parallelization; parallel programming languages, synchronization primitives, collective operations, message passing libraries, checkpointing, and operating systems. Topics covered: Speedup, Efficiency, Isoefficiency, Redundancy, Amdahls law, Computer Architecture Concepts, Parallel Machine Designs, Benmarks, Parallel Programming concepts & design, Algorithms, Parallel applications. This authoritative reference will be published in two formats: print and online. The online edition features hyperlinks to cross-references and to additional significant research. Related Subjects: supercomputing, high-performance computing, distributed computing

International Symposium, Sophia Antipolis, France, June 13, 2000. Revised Papers Springer Publishing Company
This book constitutes the refereed proceedings of the Third International Conference on Information Computing and Applications, ICICA 2012, held in Chengde, China, in September 2012. The 100 revised full papers were carefully reviewed and selected from 1089 submissions. The papers are organized in topical sections on internet computing and applications, multimedia networking and computing, intelligent computing and applications, computational statistics and applications, cloud and evolutionary computing, computer engineering and applications, knowledge management and applications, communication technology and applications.

Advanced Computational Fluid and Aerodynamics Peterson's
This book contains revised versions of papers invited for presentation at the International Workshop on Logic and Computational Complexity, LCC '94, held in Indianapolis, IN in October 1994. The synergy between logic and computational complexity has gained importance and vigor in recent years, cutting across many areas. The 25 revised full papers in this book contributed by internationally outstanding researchers document the state-of-the-art in this interdisciplinary field of growing interest; they are presented in sections on foundational issues, applicative and proof-

theoretic complexity, complexity of proofs, computational complexity of functionals, complexity and model theory, and finite model theory.

[Researching Information Systems and Computing](#) Springer

The first volume of CFD Review was published in 1995. The purpose of this new publication is to present comprehensive surveys and review articles which provide up-to-date information about recent progress in computational fluid dynamics, on a regular basis. Because of the multidisciplinary nature of CFD, it is difficult to cope with all the important developments in related areas. There are at least ten regular international conferences dealing with different aspects of CFD. It is a real challenge to keep up with all these activities and to be aware of essential and fundamental contributions in these areas. It is hoped that CFD Review will help in this regard by covering the state-of-the-art in this field. The present book contains sixty-two articles written by authors from the US, Europe, Japan and China, covering the main aspects of CFD. There are five sections: general topics, numerical methods, flow physics, interdisciplinary applications, parallel computation and flow visualization. The section on numerical methods includes grids, schemes and solvers, while that on flow physics includes incompressible and compressible flows, hypersonics and gas kinetics as well as transition and turbulence. This book should be useful to all researchers in this fast-developing field.

[Leveraging Applications of Formal Methods, Verification and Validation](#) IGI Global

This volume contains the proceedings of the 18 FST&TCS conference (Foundations of Software Technology and Theoretical Computer Science), organized under the auspices of the Indian Association for Research in Computing Science (<http://www.imsrnet.in/>). This year's conference attracted 93 submissions from as many as 22 countries. Each submission was reviewed by at least three independent referees. The Programme Committee met on August 1 and 2, 1998, at Chennai and selected 28 papers for inclusion in the conference programme. We thank the Programme Committee members and the reviewers for their sincere efforts. We are fortunate to have six invited speakers this year, providing for a very attractive programme: Rajeev Alur, Ken McMillan, Neil Immerman, John Reif, Erik Meineche Schmidt and Umesh Vazirani. The conference has two theme sessions: Model Checking (with invited talks by Alur and McMillan, and 4 contributed papers), and Quantum Computation (with invited talks by Schmidt and Vazirani). Moreover, the conference is preceded by a two-day workshop (December 14 – 15, 1998) on Molecular Computing (organized by Kamala Krithivasan), and a two-day school (December 15 – 16, 1998) on Finite Model Theory (organized by Anuj Dawar and Anil Seth). The Molecular Computation Workshop includes talks by Natasha Jonoska, Kamala Krithivasan, Georghe Paun, John Reif, Yasubumi Sakakibara, Rani Siromoney and K. G. Subramanian. The speakers at the Finite Model Theory school include Anuj Dawar, Martin Grohe, Neil Immerman, Anil Seth, Wolfgang Thomas, Moshe Vardi and Victor Vianu.

[Competitive Edge: A Guide to Business Programs 2013](#) Peterson's

This book constitutes the refereed proceedings of the 31st IFIP WG 6.1 International Conference on Testing Software and Systems, ICTSS 2019, held in Paris, France, in October 2019. The 14 regular papers and 3 short papers presented were carefully reviewed and selected from 30 submissions. This year also included an additional industrial paper. ICTSS is a series of international conferences addressing the conceptual, theoretic, and practical problems of testing software systems, including communication protocols, services, distributed platforms, middleware, embedded and cyber-physical systems, and security infrastructures.

[Graduate Programs in the Humanities, Arts & Social Sciences 2014 \(Grad 2\)](#) Advances in Computers

[Study in Europe: A Scholarships Guide](#) - presents scholarships, awards, fellowships, grants, studentships, bursaries and courses that are available in different universities and colleges in Europe. Each scholarship award description includes: name of University or College, academic department or faculty offering the award, degree program and duration of study, value and purpose of the scholarship, admission requirements and eligibility, any restrictions, application deadlines and notification dates for undergraduate, graduate, doctoral and post-doctoral study/research, and contact information.

[Sections 8-10 of 20](#) Springer

Fieldwork is widely practiced but little written about, yet accounts of the exotic, mundane, complex, and often dangerous are central to not only sociology and anthropology but also geography, social psychology, and criminology. This handbook presents the first major overview of this method in all its variety, introducing the reader to the strengths, weaknesses, and "real world" applications of fieldwork techniques.

[Logic and Computational Complexity](#) SAGE

[Best learning Scroll for Python KEY FEATURES](#) 16 chapters covering basic (loops) to advanced (NumPy) topics in Python. Focus on one topic per chapter to help learners understand topics in depth. Key points from Theory highlighted in each chapter for better retention. More than 1000 questions that give ample opportunity for practice.

7 Model test papers for learners to test their progress.

[DESCRIPTION](#) This book contains to-the-point theory followed by questions about programming skills in Python. It provides an active and structured way of learning Python. The readers can test their learning by attempting MCQs, True/False questions, and questions about finding the output in a code, identifying the error and much more. The explanations of the answers provide detailed information about the concepts tested. All topics in Python are divided into 16 chapters in this book. These include Syntax, Input-output, Data types, Strings, Operators and Expressions, Decision Control Statements, Loops, Functions, Lists, Dictionaries, Sets, Tuples, Classes, Files, Graphics, Arrays and Databases. More than 1000 questions are included for all the topics.

[WHAT YOU WILL LEARN](#) Syntax of writing Python programs. All possible errors encountered while programming in Python. Execution of different constructs in detail. Handling graphics and databases in Python. Using Arrays in Python. Handling programs and files in Python.

[WHO THIS BOOK IS FOR](#) This book is meant for the students of Undergraduate, postgraduate level and for the beginners in Python.

[TABLE OF CONTENTS](#) 1. Syntax and Input – Output 2. Data types 3. Strings 4. Operators and Expressions 5. Decision Control statements 6. Loops 7. User- Defined Functions 8. Lists 9. Dictionaries 10. Sets 11. Tuples 12. Classes 13. Files 14. Graphics 15. Arrays (NumPy) 16. Databases Appendix A: Python keywords and their use Appendix B: Operators in Python and their precedence Appendix C: Libraries in Python and common functions Bibliography Model Test Paper 1 (Solved) Model Test Paper 2 (Solved) Model Test Paper 3 (Solved) Model Test Paper 4 (Solved) Model Test Paper 5 (Solved) Model Test Paper 6 (Solved) Model Test Paper 7 (Unsolved)

[Computational Modeling of Masonry Structures Using the Discrete Element Method](#) McGraw-Hill Education

Since its first volume in 1960, *Advances in Computers* has presented detailed coverage of innovations in computer hardware, software, theory, design, and applications. It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow. As a result, many articles have become standard references that continue to be of significant, lasting value in this rapidly expanding field. In-depth surveys and tutorials on new computer technology Well-known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science

18th Conference, Chennai, India, December 17-19, 1998 : Proceedings IGI Global

Peterson's [Competitive Edge: A Guide to Graduate Business Programs 2013](#) is a user-friendly guide to hundreds of graduate business programs in the United States, Canada, and abroad. Readers will find easy-to-read narrative descriptions that focus on the essential information that defines each business school or program, with photos offering a look at the faces of students, faculty, and important campus locales. Quick Facts offer indispensable data on costs and financial aid information, application deadlines, valuable contact information, and more. Also includes enlightening articles on today's MBA degree, admissions and application advice, new business programs, and more.