This document presents a review of fish toxicity testing for the regulatory purpose of chemical safety. The main focus is on fish toxicity, but fish bioaccumulation is also considered where relevant.

Identifies and describes specific government assistance opportunities such as loans, grants, counseling, and procurement contracts available under many agencies and programs.

Washback refers to the influence of language testing on teaching and learning. This volume, at the important intersection of language testing and teaching practices, presents theoretical, methodological, and practical guidance for current and future washback studies. In the field of language testing, researchers' major interest has traditionally been focused on issues and solving problems inherent in tests in order to increase their reliability and validity. However, the washback effect goes well beyond the test itself to include factors, such as curriculum, teacher and learner behaviors inside and outside the classroom, their perceptions of the test, and how test scores are used. Only recently have researchers started to empirically investigate the phenomenon of washback. This volume of such research serves two essential purposes by: *providing an overview of the complexity of washback and the various contextual factors entangled within testing, teaching, and learning; and *presenting empirical studies from around the world that offer insights into the effects of washback in specific educational contexts and models of
research on which future studies can be based. The extensive use of test scores for various educational and social purposes in society nowadays makes the washback effect a high-interest phenomenon in the day-to-day educational activities of teachers, researchers, program coordinators/directors, policymakers, and others in the field of education. Washback in Language Testing: Research Contexts and Methods is a valuable resource for those who are interested in the application of findings to actual teaching and learning situations or conduct washback research in their own contexts, including educational and psychological testing experts, as well as alternative assessment people in all fields, and for policy- and decision-makers in educational and testing organizations.

This book constitutes the thoroughly refereed conference proceedings of the Third International Workshop on Risk Assessment and Risk-driven Testing, RISK 2015, held in conjunction with the OMG Technical Meeting in Berlin, Germany, in June 2015. The revised 8 full papers were carefully reviewed and selected from 12 submissions. This workshop addresses systematic approaches that combine risk assessment and testing. Also, the workshop was structured into the three sessions namely Risk Assessment, Risk and Development and Security Testing.

This volume contains the proceedings of TESTCOM/FATES 2008, a joint conference of two communities: TESTCOM was the 20th edition of the IFIP TC6/ WG6.1 International Conference on Testing of Communicating Systems and FATES was the 8th edition of the International Workshop on Formal Approaches to Testing of Software. TESTCOM/FATES 2008 was held at the Campus Innovation Center in Tokyo, Japan during June 10-13, 2008. Testing is one of the most important techniques for validating and checking the correctness of communication and software systems. Testing, however, is also a laborious and very cost-intensive task during the development process of such systems. TESTCOM is a series of international conferences addressing the problems of testing communicating systems, including communication protocols, services, distributed platforms, and middleware. FATES is a series of international workshops discussing the challenges of using rigorous and formal methods for testing software systems in general. TESTCOM/FATES aims at being a forum for researchers, developers, and testers to review, discuss, and learn about new approaches, concepts, theories, methodologies, tools, and experiences in the field of testing of communicating systems and software. TESTCOM has a long history. Previously it was called the International Workshop on Protocol Test Systems (IWPTS) and changed its name to the International Workshop on Testing of Communicating System (IWTC) later. The previous conferences were held in Vancouver, Canada (1988); Berlin, Germany (1989); McLean, USA (1990); Leidschendam, The Netherlands (1991); Montréal, Canada (1992); Pau, France (1993); Tokyo, Japan (1994); Evry, France (1995); Darmstadt, Germany (1996); Cheju Island, Korea (1997); Tomsk, Russia (1998); Budapest, Hungary (1999); Ottawa, Canada (2000); Berlin, Germany (2001); Sophia Antipolis, France (2002); Oxford, UK (2004); Montréal, Canada (2005); New York, USA (2006) and Tallinn, Estonia (2007).

Software development for the automotive domain has become the enabling technology for almost all safety-critical and comfort functions offered to the customer. Ninety percent of all innovations in automotive systems are directly or indirectly enabled by embedded software. The numbers of serious accidents have declined in recent years, despite constantly increasing traffic; this is correlated with the introduction of advanced, software-enabled functionality for driver assistance, such as electronic stability control. Software contributes significantly to the automotive value chain. By 2010 it is estimated that
Online Library Modeling Workshop Project Test

Software will make up 40% of the value creation of automotive electrics/electronics. However, with the large number of software-enabled functions, their interactions, and the corresponding networking and operating infrastructure, come significant complexities both during the automotive systems engineering process and at runtime. A central challenge for automotive systems development is the scattering of functionality across multiple subsystems, such as electronic control units (ECUs) and the associated networks. As an example, consider the central locking systems (CLS), whose functionality is spread out over up to 19 different ECUs in some luxury cars. Of course, this includes advanced functionality, such as seat positioning and radio tuning according to driver presets upon entry, as well as unlocking in case of a detected impact or accident. However, this example demonstrates that modern automotive systems bridge comfort and safety-critical functionality. This induces particular demands on safety and security, and, in general, software and systems quality. The resulting challenges and opportunities were discussed in depth, at the second Automotive Software Workshop San Diego (ASWSD) 2006, on whose results we report here.

Explore the cutting-edge of dissolution testing in an authoritative, one-stop resource. In Pharmaceutical Dissolution Testing, Bioavailability, and Bioequivalence: Science, Applications, and Beyond, distinguished pharmaceutical advisor and consultant Dr. Umesh Banakar delivers a comprehensive and up-to-date reference covering the established and emerging roles of dissolution testing in pharmaceutical drug development. After discussing the fundamentals of the subject, the included resources go on to explore common testing practices and methods, along with their associated challenges and issues, in the drug development life cycle. Over 19 chapters and 1100 references allow practicing scientists to fully understand the role of dissolution, apart from mere quality control. Readers will discover a wide range of topics, including automation, generic and biosimilar drug development, patents, and clinical safety. This volume offers a one-stop resource for information otherwise scattered amongst several different regulatory regimes. It also includes: A thorough introduction to the fundamentals and essential applications of pharmaceutical dissolution testing. Comprehensive explorations of the foundations and drug development applications of bioavailability and bioequivalence. Practical discussions about solubility, dissolution, permeability, and classification systems in drug development. In-depth examinations of the mechanics of dissolution, including mathematical models and simulations. An elaborate assessment of biophysiologically relevant dissolution testing and IVIVCs, and their unique applications. A complete understanding of the methods, requirements, and global regulatory expectations pertaining to dissolution testing of generic drug products. Ideal for drug product development and formulation scientists, quality control and assurance professionals, and regulators. Pharmaceutical Dissolution Testing, Bioavailability, and Bioequivalence is also the perfect resource for intellectual property assessors.

This book constitutes the refereed proceedings of the 17th IFIP TC 6/WG 6.1 International Conference on Testing Communicating Systems, TestCom 2005, held in Montreal, Canada in May/June 2005. The 24 revised full papers presented together with the extended abstract of a keynote talk were carefully reviewed and selected from initially 62 submissions. The papers address all current issues in testing communicating systems, ranging from classical telecommunication issues to general software testing.

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.

The two-volume set LNCS 8802 and LNCS 8803 constitutes the refereed proceedings of the 6th International Symposium on Leveraging Applications of Formal Methods, Verification and Validation, ISoLA 2014, held in Imperial, Corfu, Greece, in October 2014. The total of 67 full papers was carefully reviewed and selected for inclusion in the proceedings. Featuring a track introduction to each section, the papers are organized in topical sections named: evolving critical systems; rigorous engineering of autonomic ensembles; automata learning; formal methods and analysis in software product line engineering; model-based code generators and compilers; engineering virtualized systems; statistical model checking; risk-based testing; medical cyber-physical systems; scientific workflows; evaluation and reproducibility of program analysis; processes and data integration in the networked healthcare; semantic heterogeneity in the formal development of complex systems. In addition, part I contains a tutorial on automata learning in practice; as well as the preliminary manifesto to the LNCS Transactions on the Foundations for Mastering Change with several position papers. Part II contains information on the industrial track and the doctoral symposium and poster session.

This book constitutes the thoroughly refereed post-proceedings of the First Combined International Workshops on Formal Approaches to Software Testing, FATES 2006, and on Runtime Verification, RV 2006, held within the scope of FLoC 2006, the Federated Logic Conference in Seattle, WA, USA in August 2006. Coverage discusses formal approaches to test and analyze programs and monitor and guide their executions by using various techniques.

Literature cited in AGRICOLA, Dissertations abstracts international, ERIC, ABI/INFORM, MEDLARS, NTIS, Psychological abstracts, and Sociological abstracts. Selection focuses on education, legal aspects, career aspects, sex differences, lifestyle, and health. Common format (bibliographical information, descriptors, and abstracts) and ERIC subject terms used throughout. Contains order information. Subject, author indexes.

This book constitutes the refereed proceedings of the 11th International Conference on Service-Oriented Computing, ICSOC 2012, held in Berlin, Germany, in December 2013. The 29 full papers and 27 short papers presented were carefully reviewed and selected from 205 submissions. The papers are organized in topical sections on service engineering, service operations and management; services in the cloud; and service applications and implementations.

The book offers you a practical understanding of essential software testing topics and their relationships and interdependencies. This unique resource provides a thorough overview of software testing and its purpose and value. It covers topics ranging from handling failures, faults, and mistakes, to the cost of fault corrections, OC scopingOCO the test effort and using standards to guide testing."

This book offers readers a set of new approaches and tools a set of tools and
techniques for facing challenges in parallelization with design of embedded systems. It provides an advanced parallel simulation infrastructure for efficient and effective system-level model validation and development so as to build better products in less time. Since parallel discrete event simulation (PDES) has the potential to exploit the underlying parallel computational capability in today’s multi-core simulation hosts, the author begins by reviewing the parallelization of discrete event simulation, identifying problems and solutions. She then describes out-of-order parallel discrete event simulation (OoO PDES), a novel approach for efficient validation of system-level designs by aggressively exploiting the parallel capabilities of today’s multi-core PCs. This approach enables readers to design simulators that can fully exploit the parallel processing capability of the multi-core system to achieve fast speed simulation, without loss of simulation and timing accuracy. Based on this parallel simulation infrastructure, the author further describes automatic approaches that help the designer quickly to narrow down the debugging targets in faulty ESL models with parallelism.

This open access book presents work collected through the Liquefaction Experiments and Analysis Projects (LEAP) in 2017. It addresses the repeatability, variability, and sensitivity of lateral spreading observed in twenty-four centrifuge model tests on mildly sloping liquefiable sand. The centrifuge tests were conducted at nine different centrifuge facilities around the world. For the first time, a sufficient number of experiments were conducted to enable assessment of variability of centrifuge test results. The experimental data provided a unique basis for assessing the capabilities of twelve different simulation platforms for numerical simulation of soil liquefaction. The results of the experiments and the numerical simulations are presented and discussed in papers submitted by the project participants. The work presented in this book was followed by LEAP-Asia that included assessment of a generalized scaling law and culminated in a workshop in Osaka, Japan in March 2019. LEAP-2020, ongoing at the time of printing, is addressing the validation of soil-structure interaction analyses of retaining walls involving a liquefiable soil. A workshop is planned at RPI, USA in 2020.

"This book is for strategic decision makers as it discusses quality issues related to Web services"--Provided by publisher.

A Message from the TAIC PART 2010 General Chair TAIC PART is a unique event that strives to combine aspects of a conference, a workshop and a retreat. Its purpose is to bring together industrialists and academics in an environment that promotes fundamental collaboration on problems in software testing. Among the wide range of topics in computer science and software engineering, software testing is an ideal candidate for academic and industrial collaboration because advances in research can have wide-ranging and far-reaching implications for industry. Conversely, the advances in computing and communications technology and the growth of the associated software engineering activity are producing new research challenges at an increasing rate. The problems that arise in software testing are related to the problems that arise in many other areas of computing. As such, testing research combines a wide range of elements encompassing the theoretical work of program analysis and formal methods and the associated representations such as finite-state machines and dependence graphs. The inherent complexity of software testing has led to the involvement of heuristic methods. Software testing is also a human activity and has thus seen the involvement of psychology, sociology, and even philosophy. This astonishing breadth and depth have made the problems of software testing appealing to academics for several decades.
This book presents research results of PowerWeb, TU Delft’s consortium for interdisciplinary research on intelligent, integrated energy systems and their role in markets and institutions. In operation since 2012, it acts as a host and information platform for a growing number of projects, ranging from single PhD student projects up to large integrated and international research programs. The group acts in an inter-faculty fashion and brings together experts from electrical engineering, computer science, mathematics, mechanical engineering, technology and policy management, control engineering, civil engineering, architecture, aerospace engineering, and industrial design. The interdisciplinary projects of PowerWeb are typically associated with either of three problem domains: Grid Technology, Intelligence and Society. PowerWeb is not limited to electricity: it bridges heat, gas, and other types of energy with markets, industrial processes, transport, and the built environment, serving as a singular entry point for industry to the University’s knowledge. Via its Industry Advisory Board, a steady link to business owners, manufacturers, and energy system operators is provided.

Test and Design-for-Testability in Mixed-Signal Integrated Circuits deals with test and design for test of analog and mixed-signal integrated circuits. Especially in System-on-Chip (SoC), where different technologies are intertwined (analog, digital, sensors, RF); test is becoming a true bottleneck of present and future IC projects. Linking design and test in these heterogeneous systems will have a tremendous impact in terms of test time, cost and proficiency. Although it is recognized as a key issue for developing complex ICs, there is still a lack of structured references presenting the major topics in this area. The aim of this book is to present basic concepts and new ideas in a manner understandable for both professionals and students. Since this is an active research field, a comprehensive state-of-the-art overview is very valuable, introducing the main problems as well as the ways of solution that seem promising, emphasizing their basis, strengths and weaknesses. In essence, several topics are presented in detail. First of all, techniques for the efficient use of DSP-based test and CAD test tools. Standardization is another topic considered in the book, with focus on the IEEE 1149.4. Also addressed in depth is the connecting design and test by means of using high-level (behavioural) description techniques, specific examples are given. Another issue is related to test techniques for well-defined classes of integrated blocks, like data converters and phase-locked-loops. Besides these specification-driven testing techniques, fault-driven approaches are described as they offer potential solutions which are more similar to digital test methods. Finally, in Design-for-Testability and Built-In-Self-Test, two other concepts that were taken from digital design, are introduced in an analog context and illustrated for the case of integrated filters. In summary, the purpose of this book is to provide a glimpse on recent research results in the area of testing mixed-signal integrated circuits, specifically in the topics mentioned above. Much of the work reported herein has been performed within cooperative European Research Projects, in which the authors of the different chapters have actively collaborated. It is a representative snapshot of the current state-of-the-art in this emergent field.

This volume contains contributions to the BRITE-EURAM 3rd Framework Programme ETMA and extended articles of the TMA-Workshop. It focusses on turbulence modelling techniques suitable to use in typical flow configurations, with emphasis on compressibility effects and inherent unsteadiness. These methodologies are applied to the Navier-Stokes equations, involving various turbulence modelling levels from algebraic to RSM. Basic turbulent flows in aeronautics are considered; mixing layers, wall-flows (flat-plate, backward-
facing step, ramp, bump), and more complex configurations (bump, aerofoil). A critical assessment of the turbulence modelling performances is offered, based on previous results and on the experimental data-base of this research programme. The ETMA results figure in the data-base constituted by all partners and organized by INRIA.

This book constitutes the revised selected papers of the 5th International Conference on Information Systems Security and Privacy, ICISSP 2019, held in Prague, Czech Republic, in February 2019. The 19 full papers presented were carefully reviewed and selected from a total of 100 submissions. The papers presented in this volume address various topical research, including new approaches for attack modelling and prevention, incident management and response, and user authentication and access control, as well as business and human-oriented aspects such as data protection and privacy, and security awareness.

This book contains the contributions presented at the 8th International KES Conference on Smart Education and e-Learning (KES SEEL 2021), which being held as a virtual conference on June 14-16, 2021. It contains high-quality peer-reviewed papers that are grouped into several interconnected parts: smart education; smart e-learning; smart education: systems and technology; smart education: case studies and research; digital education and economics in smart university, smart university development: organizational, managerial and social Issues; smart universities and their Impact on students with disabilities. This book serves as a useful source of research data and valuable information on current research projects, best practices, and case studies for faculty, scholars, Ph.D. students, administrators, and practitioners' all those who are interested in smart education and smart e-learning.

This book contains the final reports of 19 workshops held during the 20th European Conference on Object-Oriented Programming, ECOOP 2006, held in Nantes, France in July 2006. The 19 reports cover the entire range of object technology and related topics, presenting a coherent and highly representative snapshot of the major trends in the field.

A practical guide to effective business model testing 7 out of 10 new products fail to deliver on expectations. Testing Business Ideas aims to reverse that statistic. In the tradition of Alex Osterwalder’s global bestseller Business Model Generation, this practical guide contains a library of hands-on techniques for rapidly testing new business ideas. Testing Business Ideas explains how systematically testing business ideas dramatically reduces the risk and increases the likelihood of success for any new venture or business project. It builds on the internationally popular Business Model Canvas and Value Proposition Canvas by integrating Assumptions Mapping and other powerful lean startup-style experiments. Testing Business Ideas uses an engaging 4-color format to: Increase the success of any venture and decrease the risk of wasting time, money, and resources on bad ideas Close the knowledge gap between strategy and experimentation/validation Identify and test your key business assumptions with the Business Model Canvas and Value Proposition Canvas A definitive field guide to business model testing, this book features practical tips for making major decisions that are not based on intuition and guesses. Testing Business Ideas shows leaders how to encourage an experimentation mindset within their organization and make experimentation a continuous, repeatable process.
Whether you are inheriting a test team or starting one up, Manage Software Testing is a must-have resource that covers all aspects of test management. It guides you through the business and organizational issues that you are confronted with on a daily basis, explaining what you need to focus on strategically, tactically, and operationally. Using a risk-based approach, the author addresses a range of questions about software product development. The book covers unit, system, and non-functional tests and includes examples on how to estimate the number of bugs expected to be found, the time required for testing, and the date when a release is ready. It weighs the cost of finding bugs against the risks of missing release dates or letting bugs appear in the final released product. It is imperative to determine if bugs do exist and then be able to metric how quickly they can be identified, the cost they incur, and how many remain in the product when it is released. With this book, test managers can effectively and accurately establish these parameters.

An excellent source of reference on the current practice of physical modelling in geotechnics and environmental engineering. Volume One concentrates on physical modelling facilities and experimental techniques, soil characterisation, slopes, dams, liquefaction, ground improvement and reinforcement, offshore foundations and anchors, and pipelines. V

The proceedings from the November 2001 conference in Greenbelt, Maryland comprise 21 papers on software aspects of aerospace systems, experience management systems, security, risk analysis, project planning and estimation, cost-benefit analysis, Smerfs, natural language requirements, requirements validation, erroneous requirements, value assessments, verification and validation of autonomous systems, reliability modeling, and collaborative test management. Case studies and the results of empirical research are featured. Abstracts are provided for each paper. A CD-ROM is included. Name index only. Annotation copyrighted by Book News Inc., Portland, OR.

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-Comté, Besançon, France, and co-author of Practical Model-Based Testing
This book constitutes the refereed proceedings of the 27th IFIP WG 6.1 International Conference on Testing Software and Systems, ICTSS 2015, held in Sharjah and Dubai, United Arab Emirates, in November 2015. The 14 revised full papers and 4 short papers presented were carefully reviewed and selected from 42 submissions. The papers are organized in topical sections on model based testing, test derivation methods, monitoring and fault localization, model and system testing, and real-time systems.

Copyright code: bd495658d00a5e153e4581297565aa81