Eurocae Ed 56

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 developent 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.
This book constitutes the refereed proceedings of the 16th International Conference on Formal Engineering Methods, ICFEM 2014, held in Luxembourg, Luxembourg, in November 2014. The 28 revised full papers presented were carefully reviewed and selected from 73 submissions. The papers cover a wide range of topics in the area of formal methods and software engineering and are devoted to advancing the state of the art of applying formal methods in practice. They focus in particular on combinations of conceptual and methodological aspects with their formal foundation and tool support.
The Safety of Systems contains the invited papers presented at the fifteenth annual Safety-critical Systems Symposium, held at Bristol, UK in February 2007. The papers included in this volume cover a broad spectrum of important safety issues. They provide a combination of industrial experience and recent developments, and are presented under a variety of headings.
Reliability, Maintainability and Risk has been updated to ensure that it remains the leading reliability textbook and cementing the book's reputation for staying one step ahead of the competition. This 6th edition incorporates brand new material on the accuracy of reliability prediction and common cause failure based on the author's PhD research work. David J. Smith approaches these subjects from an entirely original and unique viewpoint, emphasising that the need to demonstrate that safety-related systems have been assessed against target integrity levels is now commonplace in most industries, and the material contained in this book will address these growing needs. Reliability, Maintainability and Risk has now been established for over 20 years. It deals with all aspects of reliability, maintainability and safety-related failures in a simple and straightforward style, explaining technical terms and jargon and handling the imitations of reliability parameters. It pre-supposes no prior knowledge of the subject - the author deals with numerical data making realistic predictions using the minimum of mathematics. David J. Smith has written seven successful works on reliability, quality, maintainability, software and statistics and is past Chairman of the Safety and Reliability Society.
He has been directly concerned with this branch of engineering in the telecommunications, electronics and oil and gas industries for over 25 years. He is well known for his many courses and workshops on reliability engineering and software quality and is in a unique position to provide much-needed information on a burgeoning subject area. Readers will be getting brand new and original information that they cannot get from any other title on the subject of Reliability, Maintainability and Risk. Author is well known and has an excellent track record in this area.
He is regarded as highly "readable" and his writing concise and straightforward.
The Handbook of Formal Methods in Human-Computer Interaction

Swissair Transport Limited, McDonnell Douglas MD-11 HB-1WF, Peggy's Cove, Nova Scotia 5nm SW, 2 September 1998
Design of System Resilience
Civil Aircraft Electrical Power System Safety Assessment
Systems, Software and Services Process Improvement
Proceedings of the Seventeenth Safety-Critical Systems Symposium Brighton, UK, 3 - 5 February 2009

Cyber-physical systems closely combine and coordinate subsystems consisting of both computational and physical elements. Such systems have become indispensable in the fields of aerospace, automotive and the automation industries, as well as in consumer appliances. Safety, security and reliability are all essential elements of the trustworthiness of these modern cyber-physical systems. Protecting the data within such systems from external attack (security) and protecting the environment from any potential malfunction or misuse of these systems (safety) are subjects traditionally considered separately, but a closer look reveals that techniques for the construction and analysis of the software-based systems used in both security and safety are not necessarily fundamentally different. This book presents papers from the 2016 Marktoberdorf summer school on software engineering, held in Marktoberdorf, Germany, in August 2016. As its title – Dependable Software Systems Engineering – suggests, the lectures at this summer school explored various aspects of the engineering of more dependable software systems, and the 10 lectures included here cover subjects from programming languages and formal analysis tools to verification, validation and assurance. The book will be of interest to all those whose work involves the development and testing of more reliable and secure software systems.
A practical guide to designing and assessing safety-critical systems to international standards.
Safety Critical Systems Handbook: A Straightfoward Guide to Functional Safety, IEC 61508 (2010 Edition) and Related Standards, Including Process IEC 61511 and Machinery IEC 62061 AND ISO 13849, Third Edition, offers a practical guide to the functional safety standard IEC 61508. The book is organized into three parts. Part A discusses the concept of functional safety and the need to express targets by means of safety integrity levels. It places functional safety in context, along with risk assessment, likelihood of fatality, and the cost of conformance. It also explains the life-cycle approach, together with the basic outline of IEC 61508 (known as BS EN 61508 in the UK). Part B discusses functional safety standards for the process, oil, and gas industries; the machinery sector; and other industries such as rail, automotive, avionics, and medical electrical equipment. Part C presents case studies in the form of exercises and examples. These studies cover SIL targeting for a pressure let-down system, burner control system assessment, SIL targeting, a hypothetical proposal for a rail-train braking system, and hydroelectric dam and tidal gates. The only comprehensive guide to IEC 61508, updated to cover the 2010 amendments, that will ensure engineers are compliant with the latest process safety systems design and operation standards Helps readers understand the process required to apply safety critical systems standards Real-world approach helps users to interpret the standard, with case studies and best practice design examples throughout
Digital Avionics HandbookCRC Press
Improvements in System Safety
Guide pratique du pilote de ligne
Government Contracts Reporter
revista nacional aeronáutica y espacial
Runtime Verification
NLR-TR ... U
Achieving Quality Software

Knowledge of the "behind the instrument" is the key, since understanding a failure can not only contribute to the management of a potential emergency, but also provides tools for decision-making regarding the use or application of other systems, instruments, etc.Pilot training should be thought of as an interdisciplinary set of knowledge, with a practical application with a common goal: to carry out a flight safely and successfully. This new volume of the collection promotes the dissemination of complex technical topics with the same mode of didactic communication, through simple developments with application and practical examples in all cases.
The Ninth International Conference on Reliable Software Technologies, Ada- Europe 2004, took place in Palma, Spain, June 14–18, 2004. It was sponsored by Ada-Europe, the European federation of national Ada societies, and Ada- Spain, in cooperation with ACM SIGAda. It was organized by members of the University of the Balearic Islands (UIB). As in past years, the conference comprised a three-day technical program, during which the papers contained in these proceedings were presented, along with vendor presentations. The technical program was bracketed by two tutorial days, when the attendees had the opportunity to catch up on a variety of topics related to the ?eld, at both introductory and advanced levels. Furthermore, the conference was accompanied by an exhibition where vendors presented their products for supporting reliable-software development. Invited Speakers
Theconferencepresentedfourdistinguishedspeakers,whodeliveredstate-of-t- art information on topics of great importance, both for now and for the future of software engineering: – S. Tucker Taft, SoftCheck Inc., USA Fixing software before it breaks: using static analysis to help solve the so- ware quality quagmire – Martin Gogolla, University of Bremen, Germany Bene?ts and problems of formal methods – Antoni Oliv´ e, Polytechnical University of Catalonia, Spain On the role of conceptual schemas in information systems' development – Stephen Vinoski, IONA Technologies in Waltham, USA Can middleware be reliable? Wewouldliketoexpressoursinceregratitudetothesedistinguishedspeakers, well known to the community, for sharing their insights with the conference participants. Submitted Papers Alargenumberofpapersweresubmitted,fromasmanyas15di?erentcountries.
Civil Aircraft Electrical Power System Safety Assessment: Issues and Practices provides guidelines and methods for conducting a safety assessment process on civil airborne systems and equipment. As civil aircraft electrical systems become more complicated, electrical wiring failures have become a huge concern in industry and government—especially on aging platforms. There have been several accidents (most recently battery problems on the Boeing 777) with some of these having a relationship to wiring and power generation. Featuring a case study on the continuous safety assessment process of the civil airborne electrical power system, this book addresses problems, issues and troubleshooting techniques such as single event effects (SEE), the failure effects of electrical wiring interconnection systems (EWIS), formal theories and safety analysis methods in civil aircrafts. Introduces how to conduct assignment of development assurance levels for the electrical power system Includes safety assessments of aging platforms and their respective Electrical Wiring Interconnection System (EWIS) Features material on failure mechanisms for wiring systems and discussion of Failure Modes and Effects Analysis (FMEA) sustainment
En este nuevo tomo de la colección HDIW nos hemos dedicado a uno de los temas muy poco tratados en general por la bibliografía para la formación de pilotos. Los sistemas del avión e instrumentos de vuelo. Sabemos que se trata de temas que están fundamentados en principios, teoremas y postulados de la física, mecánica de fluidos y termodinámica; es por ello por lo que, sin obviar las bases fundamentales, cada uno de ellos han sido expuestos de modo tal que la teoría explique el funcionamiento, sin caer en desarrollos teóricos sin una aplicación tangible o práctica. Como en todos los tomos de la colección, el objetivo es la formación y el aporte de conocimientos complementarios para fortalecer la carrera profesional de los pilotos. En este caso nos centramos en que el piloto profesional sea capaz, no solo de controlar la aeronave, sino de comprender los principios de funcionamiento del instrumental y los sistemas que tiene a su mando. El conocimiento del "detrás del instrumento" es clave, ya que comprender una falla, no solo puede contribuir a la gestión de una potencial emergencia, sino que también provee herramientas para la toma de decisión con respecto al uso o aplicación de otros sistemas, instrumental, etc.
A Straightforward Guide to Applying IEC 61508 and Related Standards
Interavia
EMV der Funkkommunikation in einer Flugzeugkabine
Formal Techniques in Real-Time and Fault-Tolerant Systems
9th Ada-Europe International Conference on Reliable Software Technologies, Palma de Mallorca, Spain, June 14-18, 2004, Proceedings
Constituents of Modern System-safety Thinking
Reliable Software Technologies - Ada-Europe 2004

This book provides a comprehensive collection of methods and approaches for using formal methods within Human-Computer Interaction (HCI) research, the use of which is a prerequisite for usability and user-experience (UX) when engineering interactive systems. World-leading researchers present methods, tools and techniques to design and develop reliable interactive systems, offering an extensive discussion of the current state-of-the-art with case studies which highlight relevant scenarios and topics in HCI as well as presenting current trends and gaps in research and future opportunities and developments within this emerging field. The Handbook of Formal Methods in Human-Computer Interaction is intended for HCI researchers and engineers of interactive systems interested in facilitating formal methods into their research or practical work.
This volume contains the proceedings of FTRTFT 2002, the International S- posium on Formal Techniques in Real-Time and Fault-Tolerant Systems, held at the University of Oldenburg, Germany, 9–12 September 2002. This sym- sium was the seventh in a series of FTRTFT symposia devoted to problems and solutions in safe system design. The previous symposia took place in Warwick 1990, Nijmegen 1992, Lub ? eck 1994, Uppsala 1996, Lyngby 1998, and Pune 2000. Proceedings of these symposia were published as volumes 331, 571, 863, 1135, 1486, and 1926 in the LNCS series by Springer-Verlag. This year the sym- sium was co-sponsored by IFIP Working Group 2.2 on Formal Description of Programming Concepts. The symposium presented advances in the development and use of formal techniques in the design of real-time, hybrid, fault-tolerant embedded systems, covering all stages from requirements analysis to hardware and/or software - plementation. Particular emphasis was placed on UML-based development of real-time systems. Through invited presentations, links between the dependable systems and formal methods research communities were strengthened. With the increasing use of such formal techniques in industrial settings, the conference aimed at stimulating cross-fertilization between challenges in industrial usages of formal methods and advanced research. Inresponsetothecallforpapers,39submissionswerereceived.Eachsubm- sion was reviewed by four program committee members assisted by additional referees. At the end of the reviewing process, the program committee accepted 17 papers for presentation at the symposium.
A comprehensive resource that explores electromagnetic compatibility (EMC) for aerospace systems Handbook of Aerospace Electromagnetic Compatibility is a groundbreaking book on EMC for aerospace systems that addresses both aircraft and space vehicles. With contributions from an international panel of aerospace EMC experts, this important text deals with the testing of spacecraft components and subsystems, analysis of crosstalk and field coupling, aircraft communication systems, and much more. The text also includes information on lightning effects and testing, as well as guidance on design principles and techniques for lightning protection. The book offers an introduction to E3 models and techniques in aerospace systems and explores EMP effects on and technology for aerospace systems. Filled with the most up-to-date information, illustrative examples, descriptive figures, and helpful scenarios, Handbook of Aerospace Electromagnetic Compatibility is designed to be a practical information source. This vital guide to electromagnetic compatibility: • Provides information on a range of topics including grounding, coupling, test procedures, standards, and requirements • Offers discussions on standards for aerospace applications • Addresses aerospace EMC through the use of testing and theoretical approaches Written for EMC engineers and practitioners, Handbook of Aerospace Electromagnetic Compatibility is a critical text for understanding EMC for aerospace systems.
This volume constitutes the refereed proceedings of the 22st EuroSPI conference, held in Ankara, Turkey, in September/October 2015.The 18 revised papers presented together with 9 selected key notes and workshop papers were carefully reviewed and selected from 49 submissions. They are organized in topical sections on SPI themed case studies; SPI approaches in safety-critical domains; SPI in social and organizational issues; software process improvement best practices; models and optimization approaches in SPI; SPI and process assessment; creating environments supporting innovation and improvement; social aspects of SPI: conflicts, games, gamification and other social approaches; risk management and functional safety management.
In Large Scale and Complex Software-intensive Systems
Proceedings of the Sixteenth Safety-critical Systems Symposium, Bristol, UK, 5-7 February 2008
Air Crash Investigations: Running Out of Fuel, How Air Transat 236 Managed to Fly 100 Miles Without Fuel and Land Safely
Proceedings of the Thirteenth Safety-critical Systems Symposium, Southampton, UK, 8-10 February 2005
In-flight Fire Leading to Collision with Water
22nd European Conference, EuroSPI 2015, Ankara, Turkey, September 30 -- October 2, 2015. Proceedings
Functional Safety

Software Quality Assurance in Large Scale and Complex Software-intensive Systems presents novel and high-quality research related approaches that relate the quality of software architecture to system requirements, system architecture and enterprise-architecture, or software testing. Modern software has become complex and adaptable due to the emergence of globalization and new software technologies, devices and networks. These changes challenge both traditional software quality assurance techniques and software engineers to ensure software quality when building today (and tomorrow's) adaptive, context-sensitive, and highly diverse applications. This edited volume presents state of the art techniques, methodologies, tools, best practices and guidelines for software quality assurance and offers guidance for future software engineering research and practice. Each contributed chapter considers the practical application of the topic through case studies, experiments, empirical validation, or systematic comparisons with other approaches already in practice. Topics of interest include, but are not limited, to: quality attributes of system/software architectures; aligning enterprise, system, and software architecture from the point of view of total quality; design decisions and their influence on the quality of system/software architecture; methods and processes for evaluating architecture quality; quality assessment of legacy systems and third party applications; lessons learned and empirical validation of theories and frameworks on architectural quality; empirical validation and testing for assessing architecture quality. Focused on quality assurance at all levels of software design and development Covers domain-specific software quality assurance issues e.g. for cloud, mobile, security, context-sensitive, mash-up and autonomic systems Explains likely trade-offs from design decisions in the context of complex software system engineering and quality assurance Includes practical case studies of software quality assurance for complex, adaptive and context-critical systems
Constituents of Modern System-safety Thinking contains the invited papers presented at the Thirteenth annual Safety-critical Systems Symposium, held at Southampton, UK in February 2005. The papers included in this volume bring together topics that are of the utmost importance in current safety thinking. The core of modern safety thinking and practice is a risk-based approach, and this is not only a common thread running throughout the papers, but is also explored in two of them. Other themes considered include the safety case, safety assessment, accident investigation, and the commonality between the processes and techniques employed in safety and security engineering. Papers contain extensive industrial experience as well as recent academic research and are presented under the headings: Independent Safety Assessment, Safety and Security, Accident Investigation, Risk and its Tolerability, Achieving and Arguing the Safety of Modular Systems, and Technologies for Dependability.
"Safety-Critical Systems: Problems, Process and Practice" contains the papers presented at the seventeenth annual Safety-critical Systems Symposium, held at Brighton, UK, in February 2009. The Symposium is for engineers, managers and academics in the field of system safety, across all industry sectors, so the papers making up this volume offer a wide-ranging coverage of current safety topics, and a blend of academic research and industrial experience. They include both recent developments in the field and discussion of open issues that will shape future progress. The first paper reflects a tutorial - on Hazard Analysis - held on the first day of the Symposium. The subsequent 14 papers are presented under the headings of the Symposium's sessions: the Economics of Safety, Transport Safety, Safety in Society, New Challenges, Safety Assessment and Safety Standards. The book will be of interest to both academics and practitioners working in the safety-critical systems arena.
Um die EMV von Flugzeugen gegenüber hochfrequenten Störungen, die von tragbaren elektronischen Geräten, beispielsweise Mobiltelefonen oder Notebooks, abgestrahlt werden, sicherzustellen, sind Prüfungen der einzelnen Systeme im Flugzeug auf die Störfestigkeit gegen solche Interferenzen nötig. Gegenstand dieser Arbeit ist es, zunächst die Ausbreitungsbedingungen in einer Flugzeugkabine zu analysieren und zu bewerten. Ferner werden die bereits in Normen festgelegten Störfestigkeitstests untersucht. Der Schwerpunkt liegt hierbei auf einem Testszenario, das eine Störbeaufschlagung im Nahfeld einer Antenne beinhaltet, um die lokale Ausleuchtung, wie sie durch ein Mobiltelefon hervorgerufen werden kann, nachzubilden. Die damit verbundenen Schwierigkeiten werden aufgezeigt und eine mögliche Lösung dargestellt. Um die Schirmwirkung von Gehäusen komplexer elektronischer Systeme zu untersuchen, werden Messverfahren entwickelt, die eine ortsaufgelöste Messung im Inneren von Schirmgehäusen ermöglichen.
8th International Workshop, RV 2008, Budapest, Hungary, March 30, 2008, Selected Papers
Computing in Civil Engineering
A Straight forward Guide to Functional Safety, IEC 61508 (2010 EDITION) and Related Standards, Including Process IEC 61511 and Machinery IEC 62061 and ISO 13849
Active System Control
Dependable Software Systems Engineering
Systems of Commercial Turbofan Engines
Environmental Impact Statement

This book constitutes the thoroughly refereed post-proceedings of the 8th International Workshop on Runtime Verification, RV 2008, held in Budapest, Hungary, in March 2008 as satellite event of ETAPS 2008. The 9 revised full papers presented together with 2 invited papers were carefully selected from 27 initial submissions. The subject covers several technical fields such as runtime verification, runtime checking, runtime monitoring, and security and safety matters.
This book contains the full complement of papers presented at the sixteenth annual Safety-critical Systems Symposium, held at Bristol, UK, in February 2008. The Symposium is for engineers, managers and academics in the field of safety, across all industry sectors, and so the papers included offer a wide-ranging coverage of major safety issues as well as a good blend of academic research and industrial experience. They include discussions of some of the most recent developments.
La référence des pilotes et futurs pilotes de ligne Considéré comme une référence dans le milieu de l'aéronautique, ce guide pratique est destiné aux navigants professionnels désirant acquérir ou maintenir un bon niveau de technicité. Il est utilisable au sol comme en vol et s'avère indispensable à l'exercice courant de la profession de pilote comme à la formation aéronautique, et ce à tous les niveaux de licence et de qualification. Son point fort est d'extraire des milliers de pages

de documentation technique, réglementaire et juridique les connaissances indispensables à l'exercice du métier de pilote de ligne au quotidien. Fortement remaniée, cette 9e édition traite notamment de la nouvelle réglementation européenne IR-OPS entrée en application le 28 octobre 2014 et inclut un nouveau supplément pour mieux comprendre le givrage et l'anti-givrage des avions au sol. Préface de Patrick Baudry (Astronaute, pilote d'essais, ambassadeur de l'UNESCO)
Nowadays software engineers not only have to worry about the technical knowledge needed to do their job, but they are increasingly having to know about the legal, professional and commercial context in which they must work. With the explosion of the Internet and major changes to the field with the introduction of the new Data Protection Act and the legal status of software engineers, it is now essential that they have an appreciation of a wide variety of issues outside the technical. Equally valuable to both students and practitioners, it brings together the expertise and experience of leading academics in software engineering, law, industrial relations, and health and safety, explaining the central principles and issues in each field and shows how they apply to software engineering.
Digital Avionics Handbook, Third Edition
Air Crash Investigations: The Crash of Swissair Flight 111
Aeroespacio
5th International Symposium, ISoLA 2012, Heraklion, Crete, Greece, October 15-18, 2012, Proceedings, Part II
Formal Methods and Software Engineering
Including Its Application to Safety-Related Systems
Safety-Critical Systems: Problems, Process and Practice

The rapid growth in use of programmable technology, in nearly all sectors of Engineering, is a well-known established trend and one which there is every reason to believe will continue into the foreseeable future. The drivers of this trend include cost, flexibility, rich functionality and certain reliability and safety advantages. However, as explained in this book, these advantages have to be carefully weighed against a number of dis advantages which, amongst other things, have fundamental implications for reliability and safety. Ideally, a programmable system would be viewed as a fusion of hardware, software and user (or 'skinware'), operating under a set of environmental conditions. To date, such a unifying model does not exist and so hardware, software and human factors are still considered largely as three separate disciplines, albeit with certain interdependencies. Established techniques are available which enable the engineer to develop systems comprising purely hardware components to a prescribed reliability and performance. Software, however, is fundamentally different in a number of ways, and does not lend itself to equivalent analysis. A major problem with software is its poor 'visibility', and consequently the great difficulty in understanding and predicting its behaviour in all cir cumstances. This results in the ever-present software design flaws, or 'bugs', which have plagued the software industry from its beginnings.
On 2 September 1998, Swissair Flight SR 111 departed New York, on a scheduled flight to Geneva, Switzerland, with 215 passengers and 14 crew members on board. About 53 minutes after departure, the flight crew smelled an abnormal odour in the cockpit. They decided to divert to the Halifax International Airport. They were unaware that a fire was spreading above the ceiling in the front area of the aircraft. They would never make it to Halifax, 20 minutes after the first detection of smoke in the cabin the aircraft crashed in the North Atlantic near Peggy's Cove, Nova Scotia, Canada. There were no survivors, 229 people died in the incident.
This book introduces an approach to active system control design and development to improve the properties of our technological systems. It extends concepts of control and data accumulation by explaining how the system model should be organized to improve the properties of the system under consideration. The authors define these properties as reliability, performance and energy-efficiency, and self-adaption. They describe how they bridge the gap between data accumulation and analysis in terms of interpolation with the real physical models when data used for interpretation of the system conditions. The authors introduce a principle of active system control and safety - an approach that explains what a model of a system should have, making computer systems more efficient, a crucial new concern in application domains such as safety critical, embedded and low-power autonomous systems like transport, healthcare, and other dynamic systems with moving substances and elements. On a theoretical level, this book further extends the concept of fault tolerance, introducing a system level of design for improving overall efficiency. On a practical level it illustrates how active system approach might help our systems be self-evolving.
A perennial bestseller, the Digital Avionics Handbook offers a comprehensive view of avionics. Complete with case studies of avionics architectures as well as examples of modern systems flying on current military and civil aircraft, this Third Edition includes: Ten brand-new chapters covering new topics and emerging trends Significant restructuring to deliver a more coherent and cohesive story Updates to all existing chapters to reflect the latest software and technologies Featuring discussions of new data bus and display concepts involving retina scanning, speech interaction, and synthetic vision, the Digital Avionics Handbook, Third Edition provides practicing and aspiring electrical, aerospace, avionics, and control systems engineers with a pragmatic look at the present state of the art of avionics.

Software Quality Assurance
Professional Issues in Software Engineering
Issues and Practices
Safety Recommendation
Leveraging Applications of Formal Methods, Verification and Validation
Digital Avionics Handbook
Harry S. Truman Parkway: From the Abercorn St. Extension (SR 204) to Derenne Avenue; Chatham County, Georgia

To understand the operation of aircraft gas turbine engines, it is not enough to know the basic operation of a gas turbine. It is also necessary to understand the operation and the design of its auxiliary systems. This book fills that need by providing an introduction to the operating principles underlying systems of modern commercial turbofan engines and bringing readers up to date with the latest technology. It also offers a basic overview of the tubes, lines, and system components installed on a complex turbofan engine. Readers can follow detailed examples that describe engines from different manufacturers. The text is recommended for aircraft engineers and mechanics, aeronautical engineering students, and pilots.
On August 24, 2001, Air Transat Flight 236, an Airbus 330, was on its way from Toronto, Canada to Lisbon, Portugal with 306 people on board. Above the Atlantic Ocean, the crew noticed a dangerous fuel imbalance. The crew changed the planned route for a landing at the Lajes Airport in the Azores. At 06:13 the right engine flamed out. At 06:26, the left engine also flamed out. However, after flying 100 miles without fuel the crew managed to land the aircraft at the Lajes Airport at 06:45. After the landing small fires started in the main-gear wheels, they were extinguished by the crash rescue response vehicles. Only 16 passengers and 2 cabin-crew members received injuries. The aircraft suffered damage to the fuselage and to the main landing gear. The investigation uncovered a large crack in the fuel line of the right engine, it was caused by mistakes during an engine change just before the start of the flight.
Green Aviation is the first authoritative overview of both engineering and operational measures to mitigate the environmental impact of aviation. It addresses the current status of measures to reduce the environmental impact of air travel. The chapters cover such items as: Engineering and technology-related subjects (aerodynamics, engines, fuels, structures, etc.), Operations (air traffic management and infrastructure) Policy and regulatory aspects regarding atmospheric and noise pollution. With contributions from leading experts, this volume is intended to be a valuable addition, and useful resource, for aerospace manufacturers and suppliers, governmental and industrial aerospace research establishments, airline and aviation industries, university engineering and science departments, and industry analysts, consultants, and researchers.
Aircraft & Aerospace Asia-Pacific
Proceedings of the ... Congress Held in Conjunction with A/E/C Systems ...
16th International Conference on Formal Engineering Methods, ICFEM 2014, Luxembourg, Luxembourg, November 3-5, 2014, Proceedings
Préface de Patrick Baudry
Laws, Regulations, Rulings, Topically Arranged, Full Explanations, Currently Supplemented, Completely Indexed
The Safety of Systems
Reliability, Maintainability and Risk