If you ally compulsion such a referred Airbus A330 A340 flight control system book that will have the funds for you worth, acquire the entirely best seller from us currently from several preferred authors. If you want to comical books, lots of novels, tale, jokes, and more fictions collections are after that launched, from best seller to one of the most current released.

You may not be perplexed to enjoy every book collections Airbus A330 a340 flight control system that we will utterly offer. It is not nearly the costs. Its practically what you craving currently. This Airbus A330 A340 flight control system, as one of the most operating sellers here will definitely be in the course of the best options to review.

Federal Register- 2013-05

Building the Information Society-Rene Jacquart
2008-04-08 In the context of the 18th IFIP World Computer Congress (WCC’04), and beside the traditional organization of conferences, workshops, tutorials and student forum, it was decided to identify a range of topics of dramatic interest for the building of the Information Society. This has been featured as the "Topical day/session" track of the WCC’04. Topical Sessions have been selected in order to present syntheses, latest developments and/or challenges in different business and technical areas. Building the Information Society provides a deep perspective on domains including: the semantic integration of heterogeneous data, virtual realities and new entertainment, fault tolerance.
for trustworthy and dependable information infrastructures, abstract interpretation (and its use for verification of program properties), multimodal interaction, computer aided inventing, emerging tools and techniques for avionics certification, bio-, nano-, and information technologies, E-learning, perspectives on ambient intelligence, the grand challenge of building a theory of the Railway domain, open source software in dependable systems, interdependencies of critical infrastructure, social robots, as a challenge for machine intelligence. Building the Information Society comprises the articles produced in support of the Topical Sessions during the IFIP 18th World Computer Congress, which was held in August 2004 in Toulouse, France, and sponsored by the International Federation for Information Processing (IFIP).

**Advanced Avionics on the Airbus A330/A340 and the Boeing 777 Aircraft** - 1993

**Fault Tolerant Flight Control**-Christopher Edwards 2010-04-18 Written by leading experts in the field, this book provides the state-of-the-art in terms of fault tolerant control applicable to civil aircraft. The book consists of five parts and includes online material.

**Aviation Resource Management: Proceedings of the Fourth Australian Aviation Psychology Symposium: v. 1**-Brent. J Hayward 2017-11-01 This title was first published in 2000. This is volume one of a two-volume set which presents the reader with strategies for the contributions of psychology and human factors to the safe and effective functioning of aviation organizations and systems. Together, the volumes comprise the edited contributions to the Fourth Australian Aviation Psychology Symposium. The chapters within are orientated towards presenting and developing practical solutions for the present and future challenges facing the aviation industry. Each volume covers
areas of vital and enduring importance in the complex aviation system. Volume one includes aviation safety, crew resource management, the aircraft cabin, cockpit automation, safety investigation, fatigue and stress, and applied human factors in training.

Safety-critical Computer Systems - Neil Storey 1996
Increasingly microcomputers are being used in applications where their correct operation is vital to ensure the safety of the public and the environment: from anti-lock braking systems in automobiles, to fly-by-wire aircraft, to shut-down systems at nuclear power plants. It is, therefore, vital that engineers be aware of the safety implications of the systems they develop. This book is an introduction to the field of safety-critical computer systems written for any engineer who uses microcomputers within real-time embedded systems. It assumes no prior knowledge of safety, or of any specific computer hardware or programming language. This text is intended for both engineering and computer science students, and for practising engineers within computer related industries. The approach taken is equally suited to engineers who consider computers from a hardware, software or systems viewpoint.

Fault Diagnosis and Fault-Tolerant Control and Guidance for Aerospace Vehicles - Ali Zolghadri 2013-10-07 Fault Diagnosis and Fault-Tolerant Control and Guidance for Aerospace Vehicles demonstrates the attractive potential of recent developments in control for resolving such issues as flight performance, self protection and extended-life structures. Importantly, the text deals with a number of practically significant considerations: tuning, complexity of design, real-time capability, evaluation of worst-case performance, robustness in harsh environments, and extensibility when development or adaptation is required. Coverage of such issues helps to draw the
advanced concepts arising from academic research back towards the technological concerns of industry. Initial coverage of basic definitions and ideas and a literature review gives way to a treatment of electrical flight control system failures: oscillatory failure, runaway, and jamming. Advanced fault detection and diagnosis for linear and linear-parameter-varying systems are described. Lastly, recovery strategies appropriate to remaining actuator/sensor/communications resources are developed. The authors exploit experience gained in research collaboration with academic and major industrial partners to validate advanced fault diagnosis and fault-tolerant control techniques with realistic benchmarks or real-world aeronautical and space systems. Consequently, the results presented in Fault Diagnosis and Fault-Tolerant Control and Guidance for Aerospace, will be of interest in both academic and aerospatial-industrial milieux.

Digital Avionics Handbook - Cary Spitzer 2017-11-22 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.

Airbus Flight Control Laws - Bill Palmer 2017-06-30 An exploration of the Airbus fly-by-wire flight control laws that become active when
Normal law can no longer function. A follow on to Airbus A330 Normal Law.

**Introduction to Avionics Systems** - R.P.G. Collinson

2011-06-23 Introduction to Avionic Systems, Third Edition explains the basic principles and underlying theory of the core avionic systems in modern civil and military aircraft, comprising the pilot’s head-up and head-down displays, data entry and control systems, fly by wire flight control systems, inertial sensor and air data systems, navigation systems, autopilots and flight management systems. The implementation and integration of these systems with current (2010) technology is explained together with the methods adopted to meet the very high safety and integrity requirements. The systems are analysed from the physical laws governing their behaviour, so that the system design and response can be understood and the performance examined. Worked examples are given to show how the theory can be applied and an engineering “feel” gained from a simplified model. Physical explanations are also set out and the text is structured so that readers can “fast forward” through the maths, if they so wish.

Introduction to Avionic Systems, Third Edition meets the needs of graduates, or equivalent, entering the aerospace industries who have been educated in a wide range of disciplines, for example, electronic engineering, computing science, mathematics, physics, mechanical and aeronautical engineering. It also meets the needs of engineers at all levels working in particular areas of avionics who require an understanding of other avionic systems.

Technology is continually advancing and this new third edition has been revised and updated and the presentation improved, where appropriate. The systems coverage has also been increased and a new section on helicopter flight control added.

**Fault Tolerant Control Schemes Using Integral Sliding Modes** - Mirza Tariq
The key attribute of a Fault Tolerant Control (FTC) system is its ability to maintain overall system stability and acceptable performance in the face of faults and failures within the feedback system. In this book Integral Sliding Mode (ISM) Control Allocation (CA) schemes for FTC are described, which have the potential to maintain close to nominal fault-free performance (for the entire system response), in the face of actuator faults and even complete failures of certain actuators. Broadly an ISM controller based around a model of the plant with the aim of creating a nonlinear fault tolerant feedback controller whose closed-loop performance is established during the design process.

The second approach involves retro-fitting an ISM scheme to an existing feedback controller to introduce fault tolerance. This may be advantageous from an industrial perspective, because fault tolerance can be introduced without changing the existing control loops. A high fidelity benchmark model of a large transport aircraft is used to demonstrate the efficacy of the FTC schemes. In particular a scheme based on an LPV representation has been implemented and tested on a motion flight simulator.

Advances In Aircraft Flight Control-MB Tischler
2018-04-24 This book provides a single comprehensive resource that reviews many of the current aircraft flight control programmes from the perspective of experienced practitioners directly involved in the projects. Each chapter discusses a specific aircraft flight programme covering the control system design considerations, control law architecture, simulation and analysis, flight test optimization and handling qualities evaluations. The programmes described have widely exploited modern interdisciplinary tools and techniques and the discussions include extensive flight test results. Many important `lessons learned' are included from the experience gained when design methods and requirements were tested and
optimized in actual flight demonstration.

**Flight Control Systems**
Roger Pratt 2000 Annotation
Bridging the gap between academic research and real-world applications, this reference on modern flight control methods for fixed-wing aircraft deals with fundamentals of flight control systems design, then concentrates on applications based on the modern control methods used in the latest aircraft. The book is written for practicing engineers who are new to the aviation industry, postgraduate students in strategic or applied research, and advanced undergraduates. Some knowledge of classical control is assumed. Pratt is a member of IEEE and is UK Member for AIAA's Technical Committee on Guidance, Navigation and Control. Annotation c. Book News, Inc., Portland, OR (booknews.com)

**Aerospace Actuators 2**-Jean-Charles Maré 2017-03-13 This book is the second in a series of volumes which cover the topic of aerospace actuators following a systems-based approach. This second volume brings an original, functional and architectural vision to more electric aerospace actuators. The aspects of signal (Signal-by-Wire) and power (Power-by-Wire) are treated from the point of view of needs, their evolution throughout history, and operational solutions that are in service or in development. This volume is based on an extensive bibliography, numerous supporting examples and orders of magnitude which refer to flight controls and landing gear for various aircraft (fixed or rotorwing, launchers) in commercial, private and military applications. The topics covered in this set of books constitute a significant source of information for individuals and engineers from a variety of disciplines, seeking to learn more about aerospace actuation systems and components.

**Quality Management: A New Era**-Jimmy Chan 2005-05-06 This volume
covers the most current theories and practices in Quality Management and Six Sigma. Successful application of Quality Management and Six Sigma has been reported in a number of scenarios including computer software, manufacturing, supply chain management, customer relationship management, and so on. The refereed papers which comprise the book are selected from the First International Conference on Quality Management and Six Sigma. In some cases, authors of short papers were invited to elaborate on their ideas into detailed descriptions of practices. The contributors are academic researchers as well as industrial practitioners in the field. The book will be an important resource for students, researchers, and professionals involved in quality management. Contents: Six Sigma Overview Strategies and Models SMEs Supply Chain Software Quality Performance Evaluation and Maintenance Readership: Graduate students, researchers, and industrialists in quality management.

Keywords: Quality Management; Six Sigma; Industrial Management; Quality Function Deployment; Good Manufacturing Practices; Quality Control Circles; Quality Models; Contemporary Quality Practices; Asian Management Key Features: Covers the application of statistical tools in six sigma practices Reveals the application of project management tools in quality management and six sigma practices Elucidates contemporary ideas in the field

**Code of Federal Regulations** - 2001 Special edition of the Federal Register, containing a codification of documents of general applicability and future effect ... with ancillaries.

**Advances in Variable Structure Systems and Sliding Mode Control—Theory and Applications** - Shihhua Li
This book reflects the latest developments in variable structure systems (VSS) and sliding mode control (SMC), highlighting advances in various branches of the VSS/SMC field, e.g., from conventional SMC to high-order SMC, from the continuous-time domain to the discrete-time domain, from theories to applications, etc. The book consists of three parts and 16 chapters: in the first part, new VSS/SMC algorithms are proposed and their properties are analyzed, while the second focuses on the use of VSS/SMC techniques to solve a variety of control problems; the third part examines the applications of VSS/SMC to real-time systems. The book introduces postgraduates and researchers to the state-of-the-art in VSS/SMC field, including the theory, methodology, and applications. Relative academic disciplines include Automation, Mathematics, Electrical Engineering, Mechanical Engineering, Instrument Science and Engineering, Electronic Engineering, Computer Science and Technology, Transportation Engineering, Energy and Power Engineering, etc.

**Complex Systems Design & Management** - Daniel Krob

**Sliding Modes after the first Decade of the 21st Century** - Leonid Fridman

2011-09-28 The book presents the newest results of the major world research groups working in the area of Variable Structure Systems and Sliding Mode Control (VSS/SMC). The research activity of these groups is coordinated by the IEEE Technical Committee on Variable Structure Systems (VSS) and Sliding Modes (SM). The presented results include the reports of the research groups collaborating in a framework of the Unión Europeo Union - México project of Fondo de Cooperación Internacional en Ciencia y Tecnología (FONCICYT) 93302 titled "Automatization and Monitoring of Energy Production Processes via Sliding Mode Control". The
book starts with the overview of the sliding mode control concepts and algorithms that were developed and discussed in the last two decades. The research papers are combined in three sections: Part I: VSS and SM Algorithms and their Analysis Part II: SMC Design Part III: Applications of VSS and SMC. The book will be of interests to engineers, researchers, and graduate students working in the area of the control systems design. Novel mathematical theories and engineering concepts of control systems are rigorously discussed and supported by numerous applications to practical tasks.

Information Ergonomics - Michael Stein 2012-03-28 The variety and increasing availability of hypermedia information systems, which are used in stationary applications like operators’ consoles as well as mobile systems, e.g. driver information and navigation systems in automobiles form a foundation for the mediatization of the society. From the human engineering point of view this development and the ensuing increased importance of information systems for economic and private needs require careful deliberation of the derivation and application of ergonomics methods particularly in the field of information systems. This book consists of two closely intertwined parts. The first, theoretical part defines the concept of an information system, followed by an explanation of action regulation as well as cognitive theories to describe man-information system interaction. A comprehensive description of information ergonomics concludes the theoretical approach. In the second, practically oriented part of this book authors from industry as well as from academic institutes illustrate the variety of current information systems taken from different fields of transportation, i.e. aviation, automotive, and railroad. The reader thus gains an overview of various applications and their context of use as well as similarities and differences in design. This does not only include a description of the different information systems...
but also places them in the context of the theories and models, which were presented in the first part of this book.

Computers Take Flight
James E. Tomayko 2000

International Aerospace Abstracts 1998

Fault Detection and Fault-Tolerant Control Using Sliding Modes
Halim Alwi
2011-06-07
Fault Detection and Fault-tolerant Control Using Sliding Modes is the first text dedicated to showing the latest developments in the use of sliding-mode concepts for fault detection and isolation (FDI) and fault-tolerant control in dynamical engineering systems. It begins with an introduction to the basic concepts of sliding modes to provide a background to the field. This is followed by chapters that describe the use and design of sliding-mode observers for FDI using robust fault reconstruction. The development of a class of sliding-mode observers is described from first principles through to the latest schemes that circumvent minimum-phase and relative-degree conditions. Recent developments have shown that the field of fault tolerant control is a natural application of the well-known robustness properties of sliding-mode control. A family of sliding-mode control designs incorporating control allocation, which can deal with actuator failures directly by exploiting redundancy, is presented. Various realistic case studies, specifically highlighting aircraft systems and including results from the implementation of these designs on a motion flight simulator, are described. A reference and guide for researchers in fault detection and fault-tolerant control, this book will also be of interest to graduate students working with nonlinear systems and with sliding modes in particular. Advances in Industrial Control aims to report and encourage the transfer of technology in control engineering. The rapid development of control technology has an impact on
all areas of the control discipline. The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control.

**Dependability in Medicine and Neurology** - Nikhil Balakrishnan

2015-03-02

This ground-breaking title presents an interdisciplinary introduction to the subject of Dependability and how it applies in medicine generally and in neurology in particular. Dependability is the term applied in engineering and industry to a service that is safe, reliable and trustworthy. Dependable systems use a variety of methods to deliver correct service in the face of uncertainty resulting from misleading, erroneous information, and system faults. Dependable systems result from the application of systematic methods in design, operation, and management to deliver their services. Dependability in Medicine and Neurology presents the philosophy and ideas behind the specific methods of dependability and discusses the principles in the context of medical care and neurologic treatment especially. Patient case vignettes are used widely to illustrate key points. A first-of-its-kind title and based on the author’s many years of teaching these principles to medical colleagues throughout the United States, Dependability in Medicine and Neurology will inspire readers to develop applications for their specific areas of clinical practice. Intended for physicians (especially neurologists), medical students, nurses, and health administrators, Dependability in Medicine and Neurology is an indispensable reference and important contribution to the literature.

**The DOD C-17 versus the Boeing 777: A Comparison of Acquisition and Development**

**Computer Safety, Reliability and Security** - Massimo Felici

2003-07-31

The European Commission emphasizes, in its Fifth Research Framework, the “...
. emerging generic dependability requirements in the information society, stemming both from the ubiquity and volume of embedded and networked systems and services as well as from the global and complex nature of large scale information and communication infrastructures, from citizens, administrations and business in terms of technologies, tools, systems, applications and services”. The series of Conference on Computer Safety, Reliability, and Security (Safecomp) contributes to satisfy these requirements by reviewing the state of the art, experiences, and new trends in the relevant scientific and industrial areas. Safecomp is intended to be a platform for technology transfer among academia, industry, and research institutions, providing the opportunity for exchange of ideas, opinions, and visions among experts. This year Safecomp celebrates the 20th anniversary, its first Conference having been organized in Stuttgart by EWICS (European Workshop on Industrial Computer Systems) in 1979, and we hope these Proceedings will contribute to the celebration by supporting Safecomp aims. The Proceedings include the 25 papers that have been presented orally at the Conference and the full version of the 14 papers that have been presented as posters, all of which were selected from 76 submissions. Papers almost uniformly take up Safecomp topics, dealing with the issues of Safety Assessment and Human Factors, Verification and Validation, Design for Safety, Formal Methods, and Security.

Advances in DEA Theory and Applications-Kaoru Tone 2017-04-12 A key resource and framework for assessing the performance of competing entities, including forecasting models Advances in DEA Theory and Applications provides a much-needed framework for assessing the performance of competing entities with special emphasis on forecasting models. It helps readers to determine the most
appropriate methodology in order to make the most accurate decisions for implementation. Written by a noted expert in the field, this text provides a review of the latest advances in DEA theory and applications to the field of forecasting. Designed for use by anyone involved in research in the field of forecasting or in another application area where forecasting drives decision making, this text can be applied to a wide range of contexts, including education, health care, banking, armed forces, auditing, market research, retail outlets, organizational effectiveness, transportation, public housing, and manufacturing. This vital resource: Explores the latest developments in DEA frameworks for the performance evaluation of entities such as public or private organizational branches or departments, economic sectors, technologies, and stocks. Presents a novel area of application for DEA; namely, the performance evaluation of forecasting models. Promotes the use of DEA to assess the performance of forecasting models in a wide area of applications. Provides rich, detailed examples and case studies. Advances in DEA Theory and Applications includes information on a balanced benchmarking tool that is designed to help organizations examine their assumptions about their productivity and performance.

Library of Congress
Subject Headings

Civil Avionics Systems
Ian Moir 2013-08-16
Civil Avionics Systems, Second Edition, is an updated and in-depth practical guide to integrated avionic systems as applied to civil aircraft and this new edition has been expanded to include the latest developments in modern avionics. It describes avionic systems and potential developments in the field to help educate students and practitioners in the process of designing, building and operating modern aircraft in the contemporary avionics system. Integration is
a predominant theme of this book, as aircraft systems are becoming more integrated and complex, but so is the economic, political and technical environment in which they operate. Key features: • Content is based on many years of practical industrial experience by the authors on a range of civil and military projects • Generates an understanding of the integration and interconnectedness of systems in modern complex aircraft • Updated contents in the light of latest applications • Substantial new material has been included in the areas of avionics technology, software and system safety

The authors are all recognised experts in the field and between them have over 140 years’ experience in the aircraft industry. Their direct and accessible style ensures that Civil Avionics Systems, Second Edition is a must-have guide to integrated avionic systems in modern aircraft for those in the aerospace industry and academia.

Aircraft-Frederick Thomas
Jane 2004

Library of Congress


FPGAs and Parallel Architectures for Aerospace Applications-Fernanda Kastensmidt
2015-12-07 This book introduces the concepts of soft errors in FPGAs, as well as the motivation for using commercial, off-the-shelf (COTS) FPGAs in mission-critical and remote applications, such as aerospace. The authors describe the effects of radiation in FPGAs, present a
large set of soft-error mitigation techniques that can be applied in these circuits, as well as methods for qualifying these circuits under radiation. Coverage includes radiation effects in FPGAs, fault-tolerant techniques for FPGAs, use of COTS FPGAs in aerospace applications, experimental data of FPGAs under radiation, FPGA embedded processors under radiation and fault injection in FPGAs. Since dedicated parallel processing architectures such as GPUs have become more desirable in aerospace applications due to high computational power, GPU analysis under radiation is also discussed.

**Event-Triggered and Time-Triggered Control Paradigms**-Roman Obermaisser 2006-01-27
Event-Triggered and Time-Triggered Control Paradigms presents a valuable survey about existing architectures for safety-critical applications and discusses the issues that must be considered when moving from a federated to an integrated architecture. The book focuses on one key topic - the amalgamation of the event-triggered and the time-triggered control paradigm into a coherent integrated architecture. The architecture provides for the integration of independent distributed application subsystems by introducing multi-criticality nodes and virtual networks of known temporal properties. The feasibility and the tangible advantages of this new architecture are demonstrated with practical examples taken from the automotive industry. Event-Triggered and Time-Triggered Control Paradigms offers significant insights into the architecture and design of integrated embedded systems, both at the conceptual and at the practical level.

**Aspects of Safety Management**-Felix Redmill 2012-12-06 Aspects of Safety Management contains the invited papers presented at the ninth annual Safety-critical Systems Symposium, held in Bristol, February 2001. For some time, it has been recognised that
technical issues are only one side of the safety coin. The other, often dominant feature, is active, informed and committed management. An understanding of risk, emphasis on education and the use of language, attention to learning lessons from both research and other industry sectors, and the development of the appropriate staff competences, are all aspects of safety management. The papers contained within this volume cover a broad range of subjects, but all have the common link of safety management. They present a great deal of industrial experience, as well as some recent academic research.

**Dependable and Historic Computing**-Cliff B. Jones
2012-01-24 This Festschrift volume, published in honor of Brian Randell on the occasion of his 75th birthday, contains a total of 37 refereed contributions. Two biographical papers are followed by the six invited papers that were presented at the conference 'Dependable and Historic Computing: The Randell Tales', held during April 7-8, 2011 at Newcastle University, UK. The remaining contributions are authored by former scientific colleagues of Brian Randell. The papers focus on the core of Brian Randell’s work: the development of computing science and the study of its history. Moreover, his wider interests are reflected and so the collection comprises papers on software engineering, storage fragmentation, computer architecture, programming languages and dependability. There is even a paper that echoes Randell’s love of maps.

After an early career with English Electric and then with IBM in New York and California, Brian Randell joined Newcastle University. His main research has been on dependable computing in all its forms, especially reliability, safety and security aspects, and he has led several major European collaborative projects.

Federal Aviation Administration. Human Factors Team 1996

**Aviation Safety and Pilot Control**-National Research Council 1997-03-28 Adverse aircraft-pilot coupling (APC) events include a broad set of undesirable and sometimes hazardous phenomena that originate in anomalous interactions between pilots and aircraft. As civil and military aircraft technologies advance, interactions between pilots and aircraft are becoming more complex. Recent accidents and other incidents have been attributed to adverse APC in military aircraft. In addition, APC has been implicated in some civilian incidents. This book evaluates the current state of knowledge about adverse APC and processes that may be used to eliminate it from military and commercial aircraft. It was written for technical, government, and administrative decisionmakers and their technical and administrative support staffs; key technical managers in the aircraft manufacturing and operational industries; stability and control engineers; aircraft flight control system designers; research specialists in flight control, flying qualities, human factors; and technically knowledgeable lay readers.

**Software Fault Tolerance Techniques and Implementation**-Laura L. Pullum 2001 Look to this innovative resource for the most comprehensive coverage of software fault tolerance techniques available in a single volume. It offers you a thorough understanding of the operation of critical software fault tolerance techniques and guides you through their design, operation and performance. You get an in-depth discussion on the advantages and disadvantages of specific techniques, so you can decide which ones are best suited for your work. The book examines key programming techniques such as assertions, checkpointing, and atomic actions, and provides design tips and models to assist in the development of critical
fault tolerant software that helps ensure dependable performance. From software reliability, recovery, and redundancy... to design and data diverse software fault tolerance techniques, this practical reference provides detailed insight into techniques that can improve the overall dependability of your software.

**FME 2001: Formal Methods for Increasing Software Productivity**

Jose N. Oliveira 2003-06-29

FME 2001 is the tenth in a series of meetings organized every eighteen months by Formal Methods Europe (FME), an independent association whose aim is to stimulate the use of, and research on, formal methods for software development. It follows four VDM Europe Symposia, four other Formal Methods Europe Symposia, and the 1999 World Congress on Formal Methods in the Development of Computing Systems. These meetings have been notably successful in bringing together a community of users, researchers, and developers of precise mathematical methods for software development. FME 2001 took place in Berlin, Germany and was organized by the Computer Science Department of the Humboldt-Universität zu Berlin. The theme of the symposium was Formal Methods for Increasing Software Productivity. This theme recognizes that formal methods have the potential to do more for industrial software development than enhance software quality; they can also increase productivity at many different points in the software lifecycle. The importance of the theme is borne out by the many contributed papers showing how formal methods can make software development more efficient. There is an emphasis on tools that find errors automatically, or with relatively little human effort. There is also an emphasis on the use of formal methods to assist with critical, labor-intensive tasks such as program design and test-case generation.