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The second Workshop on "Quality and Reliability of Large-Eddy Simulations", QLES2009, was held at the University of Pisa from September 9 to September 11, 2009. Its predecessor, QLES2007, was organized in 2007 in Leuven (Belgium). The focus of QLES2009 was on issues related to predicting, assessing and assuring the quality of LES. The main goal of QLES2009 was to enhance the knowledge on error sources and on their interaction in LES and to devise criteria for the prediction and optimization of simulation quality, by bringing together mathematicians, physicists and engineers and providing a platform specifically addressing these aspects for LES. Contributions were made by leading experts in the field. The present book contains the written contributions to QLES2009 and is divided into three parts, which reflect the main topics addressed at the workshop: (i) SGS modeling and discretization errors; (ii) Assessment and reduction of computational errors; (iii) Mathematical analysis and foundation for SGS modeling.

Computational resources have developed to the level that, for the first time, it is becoming possible to apply large-eddy simulation (LES) to turbulent flow problems of realistic complexity. Many examples can be found in technology and in a variety of natural flows. This puts issues related to assessing, assuring, and predicting the quality of LES into the spotlight. Several LES studies have been published in the past, demonstrating a high level of accuracy with which turbulent flow predictions can be attained, without having to resort to the excessive requirements on computational

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resources imposed by direct numerical simulations. However, the setup and use of turbulent flow simulations requires a profound knowledge of fluid mechanics, numerical techniques, and the application under consideration. The susceptibility of large-eddy simulations to errors in modelling, in numerics, and in the treatment of boundary conditions, can be quite large due to nonlinear accumulation of different contributions over time, leading to an intricate and unpredictable situation. A full understanding of the interacting error dynamics in large-eddy simulations is still lacking. To ensure the reliability of large-eddy simulations for a wide range of industrial users, the development of clear standards for the evaluation, prediction, and control of simulation errors in LES is summoned. The workshop on Quality and Reliability of Large-Eddy Simulations, held October 22-24, 2007 in Leuven, Belgium (QLES2007), provided one of the first platforms specifically addressing these aspects of LES.

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The authoritative guide to the effective design and production of reliable technology products, revised and updated While most manufacturers have mastered the process of producing quality products, product reliability, software quality and software security has lagged behind. The revised second edition of *Improving Product Reliability and Software Quality* offers a comprehensive and detailed guide to implementing a hardware reliability and software quality process for technology products. The authors – noted experts in the field – provide useful tools, forms and spreadsheets for executing an effective product reliability and software quality development process and explore proven software quality and product reliability concepts. The authors discuss why so many companies fail after attempting to implement or improve their product reliability and software quality program. They outline the critical steps for implementing a successful program. Success hinges on establishing a reliability lab, hiring the right people and implementing a reliability and software quality process that does the right things well and works well together. Designed to be accessible, the book contains a decision matrix for small, medium and large companies. Throughout the book, the authors describe the

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hardware reliability and software quality process as well as the tools and techniques needed for putting it in place. The concepts, ideas and material presented are appropriate for any organization. This updated second edition: Contains new chapters on Software tools, Software quality process and software security. Expands the FMEA section to include software fault trees and software FMEAs. Includes two new reliability tools to accelerate design maturity and reduce the risk of premature wearout. Contains new material on preventative maintenance, predictive maintenance and Prognostics and Health Management (PHM) to better manage repair cost and unscheduled downtime. Presents updated information on reliability modeling and hiring reliability and software engineers. Includes a comprehensive review of the reliability process from a multi-disciplinary viewpoint including new material on uprating and counterfeit components. Discusses aspects of competition, key quality and reliability concepts and presents the tools for implementation. Written for engineers, managers and consultants lacking a background in product reliability and software quality theory and statistics, the updated second edition of Improving Product Reliability and Software Quality explores all phases of the product life cycle.

Competition within the telecommunications companies is growing fiercer by the day. Therefore, it is vital to ensure a high level of quality and reliability within all telecommunications systems in order to guard against faults and the failure of components and network services. Within large scale systems such quality and reliability problems are ever higher. The metrics of Quality and Reliability have to date only been available in journals and technical reports of

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companies which have designed or produced major parts of systems used in large applications. This book provides a self-contained treatment enabling the reader to be able to produce, define and utilise the metrics of Quality and Reliability required for the design and implementation of a large application such as a world class event as the Olympic Games. An additional outcome is that this book can be used as a guide for producing an ISO standard for large scale Systems such as the Olympic Games. * Provides presentations of techniques used for solving quality and reliability problems in telecommunications networks replete with illustrations of their applications to real-world services and world class events * Individual chapters written by respective international experts within their fields This will prove highly informative for Practising engineers, researchers and telecommunications professionals, academics and graduate students in telecommunications, standards bodies and organisations such as ISO.

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outline the critical steps for implementing a successful program. Success hinges on establishing a reliability lab, hiring the right people and implementing a reliability and software quality process that does the right things well and works well together. Designed to be accessible, the book contains a decision matrix for small, medium and large companies. Throughout the book, the authors describe the hardware reliability and software quality process as well as the tools and techniques needed for putting it in place. The concepts, ideas and material presented are appropriate for any organization. This updated second edition: Contains new chapters on Software tools, Software quality process and software security. Expands the FMEA section to include software fault trees and software FMEAs. Includes two new reliability tools to accelerate design maturity and reduce the risk of premature wearout. Contains new material on preventative maintenance, predictive maintenance and Prognostics and Health Management (PHM) to better manage repair cost and unscheduled downtime. Presents updated information on reliability modeling and hiring reliability and software engineers. Includes a comprehensive review of the reliability process from a multi-disciplinary viewpoint including new material on uprating and counterfeit components. Discusses aspects of competition, key quality and reliability concepts and presents the tools for implementation. Written for engineers, managers and consultants lacking a background in product reliability and software quality theory and statistics, the updated second edition of Improving Product Reliability and Software Quality explores all phases of the product life cycle.

A unique, design-based approach to reliability engineering

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Design for Reliability provides engineers and managers with a range of tools and techniques for incorporating reliability into the design process for complex systems. It clearly explains how to design for zero failure of critical system functions, leading to enormous savings in product life-cycle costs and a dramatic improvement in the ability to compete in global markets. Readers will find a wealth of design practices not covered in typical engineering books, allowing them to think outside the box when developing reliability requirements. They will learn to address high failure rates associated with systems that are not properly designed for reliability, avoiding expensive and time-consuming engineering changes, such as excessive testing, repairs, maintenance, inspection, and logistics. Special features of this book include: A unified approach that integrates ideas from computer science and reliability engineering Techniques applicable to reliability as well as safety, maintainability, system integration, and logistic engineering Chapters on design for extreme environments, developing reliable software, design for trustworthiness, and HALT influence on design Design for Reliability is a must-have guide for engineers and managers in R&D, product development, reliability engineering, product safety, and quality assurance, as well as anyone who needs to deliver high product performance at a lower cost while minimizing system failure.

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and

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maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

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