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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 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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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.

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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 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 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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Patient safety and quality are an ever-increasing concern to consumers, payers, providers, organizations, and governments. However, high reliability methods and science that can provide efficient and effective care have still not been totally implemented into our healthcare culture. Nurses, representing the majority of healthcare workers, are on the front line of the delivery and provision of safe and effective care and are ideally situated to drive the mission to achieve high reliability in healthcare. High Reliability Organizations:

A Healthcare Handbook for Patient Safety & Quality presents practical examples of HRO principles in order to establish a system that detects and prevents errors from happening even in the most difficult, high risk conditions. Authors Cynthia Oster and Jane Braaten provide healthcare professionals with tools and best practices that will improve and enhance patient safety and quality outcomes. This book provides: An overview of HRO science as an organizing framework for quality and patient safety, practical applications of HRO science, focusing on quality and patient safety, knowledge and tools that can be applied to current quality and safety practices and real-world examples of HRO principles employed in a variety of patient care areas.

Unique in its integration of theory and application, this comprehensive book explains survey design, implementation, data analysis, and continuing data management, including how to effectively incorporate the latest technology (e.g., SurveyMonkey and Qualtrics). Data management and analysis are demonstrated and explained through statistical software including SPSS, SAS, and STATA. In addition to helping students develop a complete understanding of survey research from start to finish, the authors also address the challenges and issues of specific disciplines. Available with Perusall—an eBook that makes it easier to prepare for class Perusall is an award-winning eBook platform featuring social annotation tools that allow students and instructors to collaboratively mark up and discuss their SAGE textbook.

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