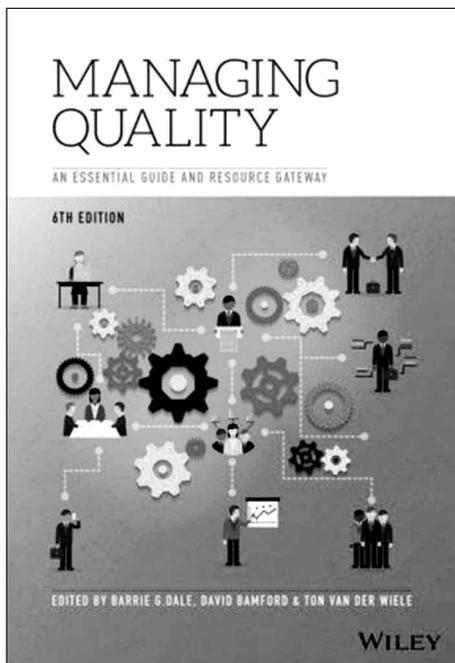# New Wiley Books in Quality and Dependability

*We present here recent **books** in quality and dependability (reliability and security) published by the well-known publishing house **John Wiley & Sons, Inc**.*
*Several of these books will be reviewed in the future issues of the journal **Asigurarea calității – Quality Assurance**. (Prof. **Ioan C. BACIVAROV, PhD**)*
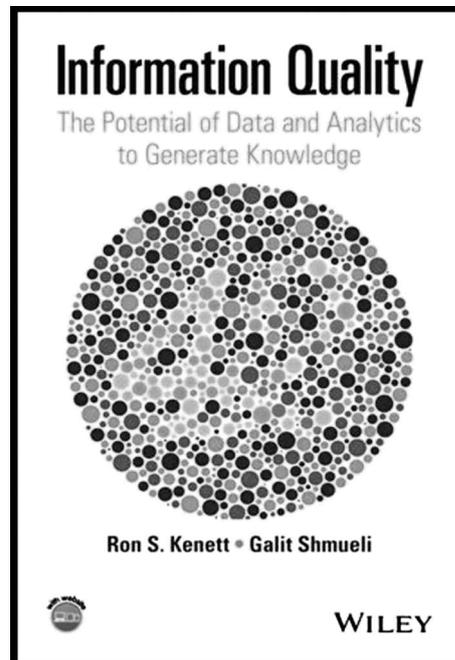
Managing Quality: An Essential Guide and Resource Gateway (6th edition) by **Barrie G. Dale, David Bamford, Ton van der Wiele** (Editors) ISBN: 978-1-119-13092-5, 352 pages (published July 2016)

❑ A popular resource for students, academics, and business practitioners alike;
❑ Combines the latest information on quality management system series standards with up-to-date tools, techniques and quality systems;
❑ Includes insights on quality, operations management, and strategic process improvement;
❑ Highly relevant for professionals, particularly those involved with reacting to rapid developments in the global market.

Information Quality: The Potential of Data and Analytics to Generate Knowledge by **Ron S. Kenett** and **Galit Shmueli** ISBN: 978-1-118-87444-8, 384 pages (published December 2016)

The word "quality" has many definitions, dependent on context and situation. It is often over-used but always in-demand, and it can make or break a business. Quality management is becoming an increasingly vital factor in the success of a product or service, and it requires constant attention and a continuous drive to do better. Managing Quality is a comprehensive resource that helps you ensure – and sustain – high quality standards.

This popular and highly successful text on Quality Management has been fully revised and updated to reflect recent developments in the field. New to the Sixth Edition is timely coverage of agile development, emerging markets, product research, evidence based decision-making, and quality control. Some of the material has been re-ordered and changes to terminology have been made to bring the book completely up to date. This book is:
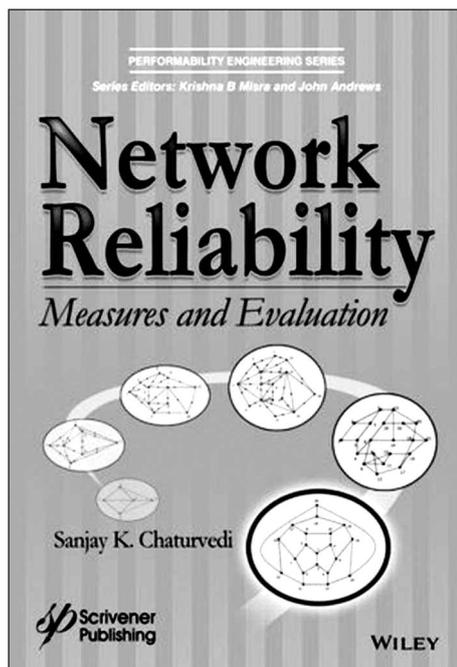
Analytics and statistical analysis have become pervasive topics, mainly due to the growing availability of data and analytic tools. Technology, however, fails to deliver insights with added value if the quality of the information it generates is not assured. The book presents the Information Quality (InfoQ), a tool deve-

loped by the authors to assess the potential of a dataset to achieve a goal of interest, using data analysis. This book:

❑ Explains how to integrate the notions of goal, data, analysis and utility that are the main building blocks of data analysis within any domain;
❑ Presents a framework for integrating domain knowledge with data analysis;
❑ Provides a combination of both methodological and practical aspects of data analysis;
❑ Showcases numerous case studies in a variety of application areas such as education, healthcare, risk management and marketing surveys.
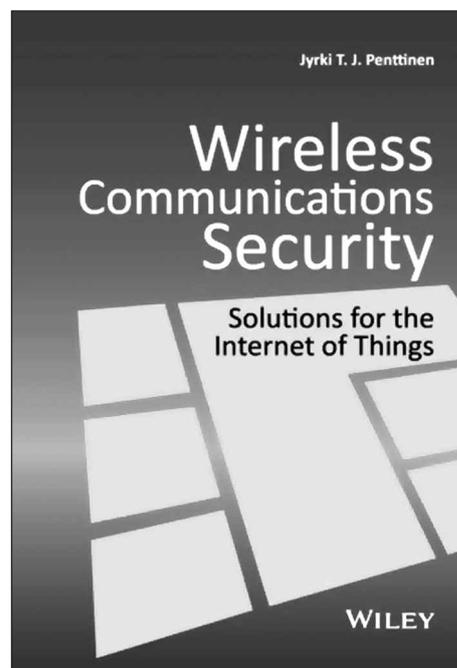
This book will be beneficial for researchers in academia and in industry, analysts, consultants, and agencies that collect and analyze data as well as undergraduate and postgraduate courses involving data analysis.

Network Reliability: Measures and Evaluation by **Sanjay K. Chaturvedi** ISBN: 978-1-119-22356-6, 272 pages (published July 2016)

This book is aimed at providing modelling and analysis techniques for the evaluation of reliability measures (2-terminal, all-terminal, k-terminal reliability) for systems whose structure can be described in the form of a probabilistic graph. Among the several approaches of network reliability evaluation, the multiple-variable-inversion sum-of-disjoint product approach finds a well-deserved niche as it provides the reliability or unreliability expression in a most efficient and compact manner. The accompanying web-based supplementary information containing modifiable Matlab® source code for the algorithms is another feature of this book. A very concerted effort has been made to keep the book ideally suitable for first course or even for a novice stepping into the area of network reliability; consequently, the mathematical treatment is kept as minimal as possible.

Wireless Communications Security: Solutions for the Internet of Things by **Jyrki T. J. Penttinen** ISBN: 978-1-119-08439-6, 336 pages (published November 2016)

This book describes the current and most probable future wireless security solutions. The focus is on the technical discussion of existing systems and new trends like Internet of Things (IoT). It also discusses existing and potential security threats, presents methods for protecting systems, operators and end-users, describes security systems attack types and the new dangers in the ever-evolving Internet. The book functions as a practical guide describing the evolvement of the wireless environment, and how to ensure the fluent continuum of the new functionalities, whilst minimizing the potential risks in network security.