



# Handbook of Maintenance Management and Engineering

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To be able to compete successfully both at national and international levels, production systems and equipment must perform at levels not even thinkable a decade ago. Requirements for increased product quality, reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance. In some cases, maintenance is required to increase operational effectiveness and revenues and customer satisfaction while reducing capital, operating and support costs. This may be the largest challenge facing production enterprises these days. For this, maintenance strategy is required to be aligned with the production logistics and also to keep updated with the current best practices. Maintenance has become a multidisciplinary activity and one may come across situations in which maintenance is the responsibility of people whose training is not engineering. This handbook aims to assist at different levels of understanding whether the manager is an engineer, a production manager, an experienced maintenance practitioner or a beginner. Topics selected to be included in this handbook cover a wide range of issues in the area of maintenance management and engineering to cater for all those interested in maintenance whether practitioners or researchers. This handbook is divided into 6 parts and contains 26 chapters covering a wide range of topics related to maintenance management and engineering.

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### Editorial Review

From the Back Cover

The *Handbook of Maintenance Management and Engineering* covers a wide range of topics in maintenance management and engineering. It includes extensive references to the theoretical foundations, recent research and future directions of this important subject.

Using applications and examples which reflect the growing importance of maintenance, this book presents readers with an inter-disciplinary perspective on topical issues which affect any organization engaged in manufacturing, process, or service industry, no matter how large or small. Contributors to the book are maintenance experts with both academic and industrial backgrounds, who are able to offer a comprehensive analysis of the subject matter, including both quantitative treatment and discussion of management issues.

The *Handbook of Maintenance Management and Engineering* features both fundamental and applied works from across the whole maintenance spectrum. It will provide professionals with the solutions and management skills needed to evaluate and to continuously improve maintenance systems. This handbook will also be an invaluable resource for researchers and graduate students working in this area.

About the Author

**Dr Mohamed Ben-Daya** has been a professor in the Department of Systems Engineering at King Fahd University of Petroleum and Minerals in Dhahran, Saudi Arabia, since 1999. He gained his PhD in Operations Research in 1988 from Georgia Institute of Technology, USA, where he also gained his MSc in 1984. Dr Ben-Daya's research interests are: mathematical programming; production and inventory control; scheduling; and maintenance engineering and quality control.

**Dr Salih O. Duffuaa** has been a professor in the Department of Systems Engineering at King Fahd University of Petroleum and Minerals in Dhahran, Saudi Arabia, since 1994. His research interests include: mathematical modelling; network flow; mathematical programming; quality assurance and control; maintenance engineering; and management optimization of quality and maintenance systems. Dr Duffuaa gained his PhD in Operations Research in 1982 from the University of Texas at Austin, USA.

**Dr Abdul Raouf** has been a professor at the Institute of Management and Technology, University of Management and Leadership in Lahore, Pakistan, since 2000. He gained his PhD from the University of Windsor.

**Dr Jezdimir Knezvic** established the self-financing centre for Management of Industrial Reliability, Cost and Effectiveness (MIRCE) at Exeter University in 1991, where he is still a professor. He has contributed to over 300 publications worldwide including books, papers and reports. Dr Knezvic gained his Bachelors degree, Masters degree and PhD from the University of Belgrade.

**Dr Daoud Ait-Kadi** has been a professor in the Department of Mechanical Engineering at the Université

Laval, Sainte-Foy, Quebec, since 1990. He gained his PhD from the Université de Montréal in 1985. Dr Ait-Kadi's research interests include: design and control of production systems; optimization of the maintenance and reliability systems subject to random failures; optimization of a system's life cycle; development of advanced technologies for the design and control of supply chains in a probabilistic context; optimization of validation texts for the reliability of innovative systems; and reliability.

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