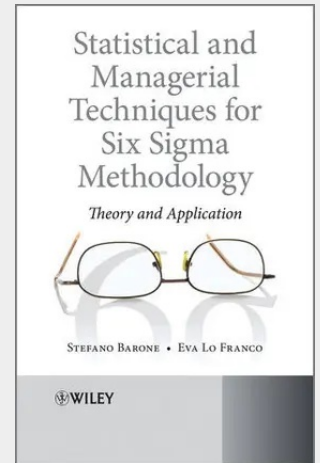


Statistical and Managerial Techniques for Six Sigma Methodology: Theory and Application

Statistical and Managerial Techniques for Six Sigma Methodology examines the methodology through illustrating the most widespread tool and techniques involved in Six Sigma application. Both managerial and statistical aspects of Six Sigma will be analyzed, allowing the reader to apply these tools in the field. This book offers an insight on variation and risk management, and focuses on the structure and organizational aspects of the Six Sigma projects. It covers six sigma methodology, basic managerial techniques, basic statistical techniques, methods for variation and risk management and advanced statistical techniques. Clear and practical examples and demonstrations are included throughout the book. * Packed with clear examples and case studies to illustrate the concepts and methodologies used in Six Sigma. * Looks at both managerial and statistical aspects of Six Sigma, covering both basic and more advanced statistical techniques. * Provides a chapter featuring case studies, equipping readers with the tools and techniques to apply methodology to real situations. * Suitable for adoption in all courses for Six Sigma Green Belt and Black Belt * Features a supporting website containing datasets Well suited for Master level students in engineering and quality management, as well as MBA. Quality Managers, Consultants, and public and private companies implementing Six Sigma will also benefit greatly from the book.

Stefano Barone, University of Palermo, Italy; and Chalmers University of Technology, Sweden Eva Lo Franco, University of Palermo, Italy Six Sigma methodology is a business management strategy which seeks to improve the quality of process output by identifying and removing the causes of errors and minimizing variability in manufacturing and business processes. This book examines the Six Sigma methodology through illustrating the most widespread tools and techniques involved in Six Sigma application. Both managerial and statistical aspects are analysed allowing the reader to apply these tools in the field. Furthermore, the book offers insight on variation and risk management and focuses on the structure and organizational aspects of Six Sigma projects. Key features: * Presents both statistical and managerial aspects of Six Sigma, covering both basic and more advanced statistical techniques. * Provides clear examples and case studies to illustrate the concepts and methodologies used in Six Sigma. * Written by experienced authors in the field. The textbook is ideal for graduates studying Six Sigma for Black Belt and Green Belt qualifications as well as for engineering and quality management courses. Business consultants and consultancy firms implementing Six Sigma will also benefit from this book.



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