Jurans Quality Handbook by A. Blanton Godfrey

For decades, Jurans Quality Handbook has been the one essential reference in quality management and engineering—the ultimate authoritative source of answers on quality applications, procedures, techniques, and strategies. Now this Fifth Edition—a major revision and the first new edition of Jurans Quality Handbook in more than 10 years—forges a new standard in tools for quality. Bringing managers and engineers the most up-to-date methods, research, and theory, under the guidance of a team of the world's top experts, Jurans shows you how to plan for quality, achieve quality control, and ensure quality results. Packed with new methods, research, and thought on quality, and emphasizing the need for quality software and quality software development methods, this completely updated classic also gives you new information, new techniques, and new applications. Broad in scope and inclusive in methodology, Jurans Quality Handbook is the reference of choice for anyone concerned with quality in business, manufacturing, or engineering. Whether you're just beginning your journey or a longtime traveler on the quality path, this book is the best possible companion for your voyage.

My Personal Review:
For decades Joseph Juran has been a famous name in the quality movement. He formed his own institute for quality and has for many years edited an extensive volume on methods for improving quality in manufacturing processes. This Quality Handbook, now in its fifth edition has long been the basic reference for quality engineers and statistician alike. To honor Juran, the fifth edition is titled Juran's Quality Handbook. The volume is now over 900 pages and consists of 48 chapters and 5 appendices. There are 53 authors including Juran himself and his colleague and co-editor Blanton Godfrey. Many other well-known persons have contributed. It includes a chapter on government services by Vice President Al Gore. Prominent statisticians who have contributed include Don Marquardt, Stu Hunter, Bill Meeker, Luis Escobar, Gerry Hahn, Ed Schilling, Ed Dudewicz and Necip Doganaksoy.
As a statistician, I particularly like having a wealth of practical statistical information and tables in one source. Dudewicz provides the introductory statistical material necessary to understand the four other statistical chapters that follow it (SPC by Wadsworth, Acceptance Sampling by Schilling, Design and Analysis of Experiments by Hunter and Reliability Concepts and Data Analysis by Meeker, Escobar, Doganaksoy and Hahn). These are all distinguished authors who are excellent writers and several have written whole text books on these subjects. This edition is up-to-date with the latest advances in quality techniques. Statistical advances in robust design (Taguchi methods), bootstrap methods, process control and capability are all included. Juran and Deming had major practical impact on the quality movement because they both emphasized the need for proper process management. This can be seen in many of the non-statistical chapters that deal with successful management techniques such as six sigma.

This edition is even better than the previous editions and is indeed worthy of the title of bible. Despite the high cost this book is prominent on my bookshelf. I recommend it to anyone heavily involved in product reliability, even if they own copies of previous editions!

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