

### The Certified Quality Technician Handbook

Donald W. Benbow, Ahmad K. Elshennawy, and H. Fred Walker

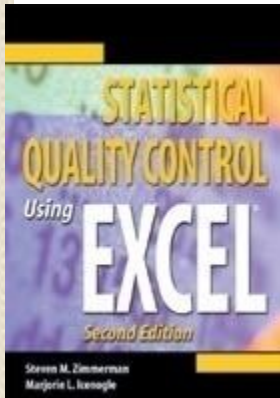
This book covers all of the topics listed in the Certified Quality Technician Body of Knowledge. The conversational tone of this reference book makes it easy to read while helping readers master quality assurance subject matter. Those interested in auditing, design of experiments, management, quality costs, sampling, and reliability will find this text helpful. Whether you want to brush up on skills needed in your profession, or review material before taking the Certified Quality Technician exam, this guide can help. Readers do not need a formal statistical background nor is it necessary to attend a course before using this book. This guide can also help an engineer or quality professional brush up on skills required for one's job due to newly assigned responsibilities.

Additionally, the authors provide references and introductions to topics that quality technicians will need as they grow more advanced in their career. Review questions are included in a supplementary section. While no text can guarantee success, it's an excellent resource for those preparing to take the CQT exam or for your professional library. The CD-ROM that is included with the handbook contains a Certified Quality Technician sample exam, with problems organized to correspond to the body of knowledge for the ASQ certification.

2003 kovakantinen 232 sivua

**Tilausnumero: H1146**

ISBN 978-0-87389-558-3



### Statistical Quality Control Using Excel, Second Edition

Marjorie L. Icenogle and Steven M. Zimmerman

Would you like to learn more about using Excel? Are you looking for an easier way to solve statistical quality control problems? Statistical quality control (SQC) experts Steven Zimmerman and Marjorie Icenogle have updated their guide that combines the power of each into this one integrated book and CD-ROM. While this introduction to SQC is for beginners to either quality or to the software product Excel, those with a more advanced knowledge of SQC and Excel will also find this book valuable to incorporate the two.

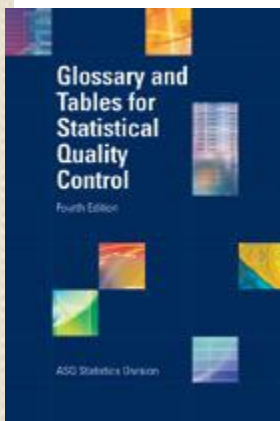
New versions of Excel make creating quality control spreadsheets easier than ever. This new edition contains spreadsheets for: exponential weighted moving average charts, moving sum of the sample statistic control charts, cumulative sum charts, reliability problems, and information on using the Pivot Table and Pivot Chart functions in Excel.

This guide begins with introductions to the concepts of SQC and the use of spreadsheets. A review of Excel's features is followed by explanations of statistical distribution, outliers, and the analysis required for SQC methods. Basic statistical process control methods such as p and np control charts, c and u control charts, and Pareto charts are demonstrated. Descriptions on acceptance sampling methods including binomial and hypergeometric distributions and average outgoing quality curves are also offered. Also new to this package is direction on using Excel in PowerPoint presentations. Practice problems, definitions of key terms, detailed graphics, and end-of-chapter summaries help make this book an outstanding tool to combine SQC with Excel software.

2003 pehmeäkantinen 430 sivua

**Tilausnumero: H1151**

ISBN 978-0-87389-566-8



### Glossary and Tables for Statistical Quality Control, Fourth Edition

ASQ Statistics Division

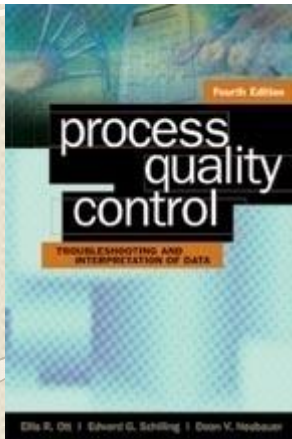
The new edition of the best-selling reference on statistical quality control has been updated to include definitions re-written for a wider audience to grasp the meaning of technical terms. These definitions also parallel national and international standards and are categorized into sections that make it easy to identify by subject matter.

Terms have been extensively cross-referenced and alphabetized in one handy reference along with a comprehensive collection of statistical tables that make it easy to access all of the information needed for statistical calculation. New items added to this edition include a guide for control chart selection and g and h control charts. Basic statistical measures and equation examples make this an outstanding resource for every quality professional as well as a great resource for preparing for the Certified Quality Engineer, Certified Mechanical Inspector, and Certified Quality Technician exams.

2004 pehmeäkantinen 200 sivua

**Tilausnumero: H1197**

ISBN 978-0-87389-631-3



## Process Quality Control: Troubleshooting and Interpretation of Data, Fourth Edition

*Ellis R. Ott, Edward G. Schilling, and Dean V. Neubauer*

Ellis Ott taught generations of quality practitioners to be explorers of the truth through the collection and graphical portrayal of data. From a simple plea to “plot the data” to devising a graphical analytical tool called the analysis of means (ANOM), Ott demonstrated that process knowledge is to be gained by seeking the information contained within the data.

In this newest version of Ott’s classic text, the authors have strived to continue down the path that he created for others to follow. Additions to this revised edition include: the use of dot plots as an alternative to histograms; digidot plots; adding events to charts; emphasis on the role that acceptance control charts play in controlling risks and the computation of average run length (ARL); a new chapter devoted to process capability, process performance, and process improvement, including the use of confidence intervals for process capability metrics; narrow-limit gauging as another means of assessing the capability of a process; Six Sigma methodology; design resolution; scatter plot matrices as applied to datasets of higher dimensions; and a new chapter on measurement studies.

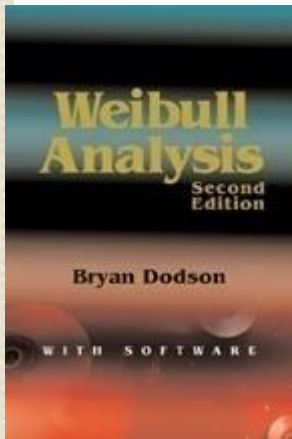
2005 kovakantinen 672 sivua

**Tilausnumero: H1222**

ISBN 978-0-87389-655-9

## The Weibull Analysis Handbook, Second Edition

*Bryan Dodson*



The purpose of this book is to provide practitioners with the tools necessary to utilize the Weibull distribution for modeling, analysis, and problem solving. The book includes both basic and advanced concepts. The underlying theme of keeping the presentations simple was followed throughout the book. Thus, very little mathematical theory is presented. Step by step examples are used to illustrate each technique presented. Practitioners will find easy-to-follow road maps guiding them through every step of an analysis. Since most practitioners are more interested in results rather than how to perform calculations, the majority of road maps have been incorporated into a computer program contained on an accompanying disk (Windows 95 or later). In most cases, Microsoft Excel solutions to the examples are also included on an accompanying disk.

This second edition includes more explanation on the benefits and weaknesses of the competing methods for parameter estimation, and tips for which method to use in a given situation. A chapter has been added to address data sets with few or no failures. This chapter also includes a discussion of test design and an algorithm for financially optimizing durability tests. This book has been written in a manner to accommodate both the novice and the experienced engineer or statistician. The novice can apply the techniques presented by reading the assumptions and application requirements, while the veteran can gain more understanding by reading the mathematical details of the technique.

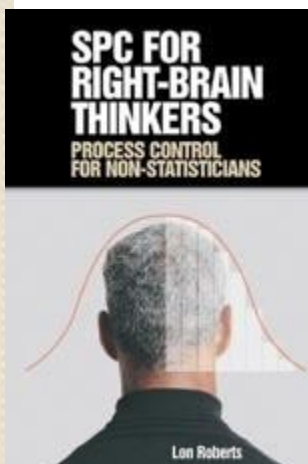
2006 pehmeäkantinen 184 sivua

**Tilausnumero: H1252**

ISBN 978-0-87389-667-2

## SPC for Right-Brain Thinkers: Process Control for Non-Statisticians

*Lon Roberts*



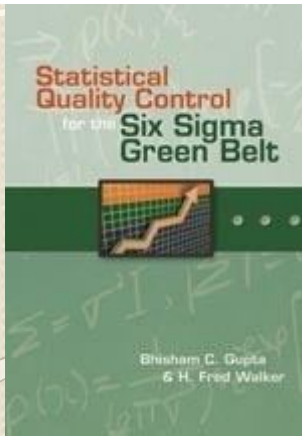
*SPC for Right-Brain Thinkers* is not simply another made-easy book on the subject of statistical process control (SPC). The guiding principle in writing this book was to make SPC accessible to that large group of individuals who would readily characterize themselves as right-brain thinkers. The challenge that right-brain thinkers face in understanding and applying SPC goes beyond the math; it is also a matter of approaching the subject from a different perspective altogether—through the side door, if you will, where the inner workings of SPC may be seen in action. The book is also intended to serve the information needs of those who either own or work within the job processes wherein SPC is applied.

Since right-brain thinkers are often inclined to gravitate to service-oriented jobs, the examples used in this book demonstrate the use of SPC in a service organization: a pseudo law firm called Advocate General. These examples demonstrate the basic principles of SPC in a way that can be adapted to any situation.

2006 pehmeäkantinen 128 sivua

**Tilausnumero: H1257**

ISBN 978-0-87389-663-4



**Statistical Quality Control for the Six Sigma Green Belt**

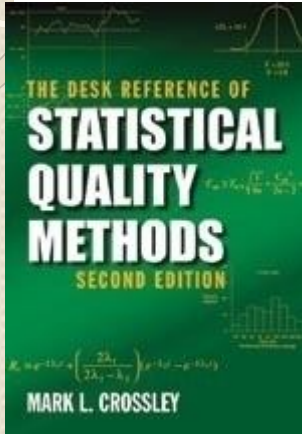
*Bhisham C. Gupta and H. Fred Walker*

This second book in a four-book series directed toward Six Sigma Green Belts focuses on statistical quality control (SQC), and covers such topics as: sampling, process set-up/ verification and pre-control, control charts for variables and attributes, cumulative sum and exponentially weighted moving average control charts, process capability indexes, measurement systems analysis, and acceptance sampling. Guidance is also given on the use of Minitab and JMP in doing these various SQC applications. Examples and sample problems from all industries appear throughout the book to aid a Green Belt's comprehension of the material.

2007 kovakantinen 368 sivua

Tilausnumero: H1277

ISBN 978-0-87389-686-3



**The Desk Reference of Statistical Quality Methods, Second Edition**

*Mark L. Crossley*

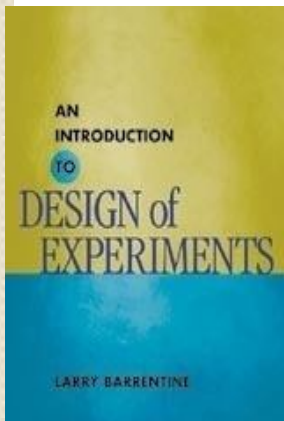
Arranged in alphabetical order for quick reference, this book provides the quality practitioner with a single resource that illustrates, in a practical manner, how to execute specific statistical methods frequently used in the quality sciences. Each method is presented in a stand-alone fashion and includes computational steps, application comments, and a fully illustrated brief presentation on how to use the tool or technique.

This second edition includes new sections on advanced SPC applications, reliability applications, and Simplex Optimization. There are expansions in the sections on process capability analysis, hypothesis testing, and design of experiments.

2007 kovakantinen 560 sivua

Tilausnumero: H1317

ISBN 978-0-87389-725-9



**Introduction to Design of Experiments: A Simplified Approach**

*Larry B. Barrentine*

Are you aware of how design of experiments can positively affect your work? Have you been avoiding DOE due to its mathematical structure? Now there is a tool that explains the basics of DOE with little mathematical know-how while maintaining statistical correctness. By minimizing DOE's mathematics in favor of a logical, structured approach, the author demonstrates that nearly anyone can adapt DOE to their needs.

You'll find yourself working through the book in a step-by-step manner allowing you to immediately apply what you've learned to your own situation. Each procedure is illustrated by an example. Case studies and exercises guide you through the book to help you evaluate your understanding before moving ahead to another section. A glossary of common DOE terms is also included making this one of the most thorough, basic, introductions to this useful tool.

1999 pehmeäkantinen 114 sivua

Tilausnumero: H1016

ISBN 978-0-87389-444-9

**The Handbook of Applied Acceptance Sampling: Plans, Procedures, and Principles**

*Kenneth S. Stephens*

Written in clear and understandable terms, this handbook provides a modern and applied approach to the subject of acceptance sampling and inspection. Loaded with numerous examples and illustrations to guide you, *The Handbook of Applied Acceptance Sampling: Plans, Procedures, and Principles* helps to make many of the mainstream principles and evaluation tools of this quality method straightforward and easy to understand.

The text is written in a clear, lucid style with numerous examples and illustrations to help guide the reader, student, or practitioner in these quality techniques, and to serve as a resource for current knowledge on the subject. Using spreadsheet analysis and their applications for common acceptance sampling problems (complete with the actual formulas used in the principal cells), the book makes many of the principles and evaluations of acceptance sampling easy to understand and apply using Excel spreadsheet software. The bonus CD-ROM is loaded with appendices, problem exercises and solutions, tables, graphs, and more from the text that can be used beyond the applications in the book—making it an excellent practical guide for the student or quality professional.

2001 kovakantinen 538 sivua

Tilausnumero: H1062

ISBN 0-87389-475-8



## Zero Acceptance Number Sampling Plans, Fifth Edition

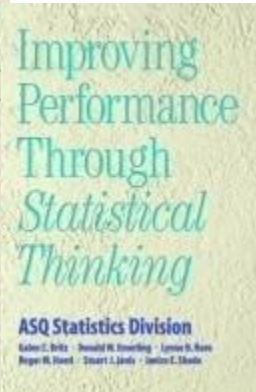
Nicholas L. Squeglia

This book provides a set of attribute plans for lot-by-lot inspection with the acceptance number in all cases as zero. After years of extensive application by government contractors, commercial manufacturing, and service industries, these  $c=0$  sampling plans are now considered stand alone sampling plans. They have continually gained in popularity for more than 45 years, and today are the norm.

The zero acceptance number plans developed by the author were originally designed and used to provide equal or greater consumer protection with less overall inspection than the corresponding MIL-STD-105-E sampling plans. In 2000, the Department of Defense declared MIL-STD-105-E obsolete and recommended the  $c=0$  plans in this book for use in place of them. In addition to the economic advantages, the plans in this book are also simple to use and administer.

48 sivua. ISBN 978-0-87389-739-6. Pehmeäkantinen. 2008

**Tilausnumero:** H1331



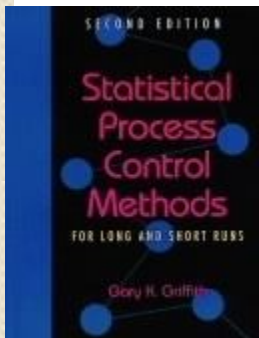
## Improving Performance Through Statistical Thinking

ASQ Statistics Division

For those organizations striving to make improvement, *Improving Performance Through Statistical Thinking* presents a clear and practical explanation of statistical thinking without the typical equations and formulas. Not simply a list of tools, this book bridges the gap from concept to application by providing step-by-step guidance on how to get started on problems. In addition, case histories provide real-world examples for readers to extend to their own processes, while they learn how to implement statistical thinking in their organization. Concepts are clearly illustrated for readers to follow and extend to their own processes.

171 sivua ISBN 0873894677. Pehmeäkantinen. 2000

**Tilausnumero:** H1060



## Statistical Process Control Methods for Long and Short Runs, Second Edition

Griffith, Gary K.

This basic, step-by-step guide for SPC has been revised to include the most up-to-date information on control charts, capability analysis, and statistical problem solving. Practice problems and answers allow the reader to work through SPC exercises. This second edition contains new information on the following topics: process control planning, short-run charts for variables and attributes, gage R & R, regression and correlation analysis, testing variances, and problem-solving tools.

250 sivua. ISBN 087389345X. Pehmeäkantinen. 1996

**Tilausnumero:** H0900