
Process Capability Analysis For Six Qms Global Llc

Six Sigma and Beyond
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 Evolving From Product Control to Process Control
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 Process Capability Analysis
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 Measuring Process Capability
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 The Tactical Guide to Six Sigma Implementation
 A Guide for Practitioners
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 Handbook for Implementing Process Improvement with Lean Six Sigma
 Six Sigma For Dummies®
 Statistical Engineering for Process Improvement
 Process Capability Analysis for Quality and Lean Six Sigma
 Lean Six Sigma Service Excellence
 Six Sigma
 Six Sigma Statistics with Excel: Statistical Process Control
 Lean Six Sigma: International Standards and Global Guidelines
 Six Sigma for Managers
 Process Capability Analysis
 The Practical Application of the Process Capability Study

*Process Capability Analysis For Six
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NATHALIA WELLS

Six Sigma and Beyond J. Ross Publishing

A hybrid methodology, Lean Six Sigma (LSS) is designed to accommodate global challenges and constraints by capitalizing on Six Sigma and Lean Thinking. LSS incorporates best practices from programs such as the International Organization for Standardization (ISO), Capability Maturity Model, and Total Quality Management. International Lean Six Sigma practitioners must understand the dynamics of LSS, along with its cultural aspects and regulations. Lean Six Sigma: International Standards and Global Guidelines, Second Edition provides this understanding. The book assumes that the overall goal of operational excellence is to ensure that organizational tasks and activities are being performed to the best of their process capabilities. It defines continuous improvement as activities that support and empower environments to make flexible decisions that lead to ongoing improvement and effectiveness. Coverage includes: New global LSS standards International implementation of process improvement programs New international LSS

applications International Lean Six Sigma areas of competency The book defines many of the terms popularized by process improvement programs, such as center of excellence and business transformation. It documents these practices and explains how to perform future activities in accordance with the recorded practices. Exploring international approaches to Lean Six Sigma, it details the new ISO Standard for Six Sigma and also addresses the role of project management in LSS. Illustrating the synergies between Lean and Six Sigma and how they partner with other process improvement programs and initiatives, this book is an ideal study guide for those preparing to take the LSS Black Belt certification exam.

Six Sigma Quality Press

Master the Statistical Techniques for Six Sigma Operations, While Boosting Your Excel and Minitab Skills! Now with the help of this "one-stop" resource, operations and production managers can learn all the powerful statistical techniques for Six Sigma operations, while becoming proficient at Excel and Minitab at the same time. Six Sigma Statistics with Excel and Minitab offers a complete guide to Six Sigma statistical methods, plus expert coverage of Excel and Minitab, two of today's most popular programs for statistical analysis and data visualization. Written

by a seasoned Six Sigma Master Black Belt, the book explains how to create and interpret dot plots, histograms, and box plots using Minitab...decide on sampling strategies, sample size, and confidence intervals...apply hypothesis tests to compare variance, means, and proportions...conduct a regression and residual analysis...design and analyze an experiment...and much more. Filled with clear, concise accounts of the theory for each statistical method presented, *Six Sigma Statistics with Excel and Minitab* features: Easy-to-follow explanations of powerful Six Sigma tools A wealth of exercises and case studies 200 graphical illustrations for Excel and Minitab Essential for achieving Six Sigma goals in any organization, *Six Sigma Statistics with Excel and Minitab* is a unique, skills-building toolkit for mastering a wide range of vital statistical techniques, and for capitalizing on the potential of Excel and Minitab. *Six Sigma Statistical with Excel and Minitab* offers operations and production managers a complete guide to Six Sigma statistical techniques, together with expert coverage of Excel and Minitab, two of today's most popular programs for statistical analysis and data visualization. Written by Issa Bass, a Six Sigma Master Black Belt with years of hands-on experience in industry, this on-target resource takes readers through the application of each Six Sigma statistical tool, while presenting a straightforward tutorial for effectively utilizing Excel and Minitab. With the help of this essential reference, managers can: Acquire the basic tools for data collection, organization, and description Learn the fundamental principles of probability Create and interpret dot plots, histograms, and box plots using Minitab Decide on sampling strategies, sample size, and confidence intervals Apply hypothesis tests to compare variance, means, and proportions Stay on top of production processes with statistical process control Use process capability analysis to ensure that processes meet customers' expectations Employ analysis of variance to make inferences about more than two population means Conduct a regression and residual analysis Design and analyze an experiment In addition, *Six Sigma Statistics with Excel and Minitab* enables you to develop a better understanding of the Taguchi Method...use measurement system analysis to find out if measurement processes are accurate...discover how to test ordinal or nominal data with nonparametric statistics...and apply the full range of basic quality tools. Filled with step-by-step exercises, graphical illustrations, and screen shots for performing Six Sigma techniques on Excel and Minitab, the book also provides clear, concise explanations of the theory for each of the statistical tools presented.

Authoritative and comprehensive, *Six Sigma Statistics with Excel and Minitab* is a valuable skills-building resource for mastering all the statistical techniques for Six Sigma operations, while harnessing the power of Excel and Minitab.

Evolving From Product Control to Process Control CRC Press

Presented from the perspective of practitioners, researchers and academics, *The Ten Commandments of Lean Six Sigma* serves as a practical guide for senior managers and executives who want to achieve operational and service excellence in various manufacturing, service and public sector organizations.

Estimating Quality CRC Press

Praise for *The Lean Six Sigma guide to Doing More with Less* "At Frito Lay, we have applied many of the concepts and tools in this book, and we are realizing a five to seven times return on our annual Lean Six Sigma investment." —Tony Mattei, Lean Six Sigma Director, Frito Lay "Ecolab has experienced a sustainable, competitive advantage through Lean Six Sigma. The principles in this book are helping us drive greater value for our share-holders, better service for our customers, and talent development opportunities for our associates." —Jeffrey E. Burt, Vice President and Global Deployment Leader, Lean Six Sigma, Ecolab "This

book gives excellent insights into Lean Six Sigma and its strong impact within different industries. We used Lean Six Sigma in numerous process improvement projects, which, in turn, helped to create momentum and set up a process improvement culture. Amid a challenging economic environment, we are accelerating this initiative globally." —Satheesh Mahadevan, Directeur des Processus, Société Générale "Our Lean Six Sigma deployment of the concepts and tools described in this book is transforming our business—with tangible benefits for our employees, customers, suppliers, and shareholders." —Jeffrey Herzfeld, Sr. Vice President and General Manager, Teva Pharmaceuticals USA "We have deployed the holistic Lean Six Sigma strategy described by Mark George across our enterprise. It is providing remarkable returns for Unum." —Bob Best, Chief Operating Officer, Unum "The Lean Six Sigma Guide to Doing More with Less presents a comprehensive view of operations transformation, the approaches required for success, leadership's role, and the competitive advantage that results. Transformational changes are enabling us to do more with less, by investing and working smarter." —Ted Doheny, President and COO, Joy Mining Machinery

Process Capability Analysis McGraw Hill Professional

The world's largest and most profitable companies – including the likes of GE, Bank of America, Honeywell, DuPont, Samsung, Starwood Hotels, Bechtel, and Motorola – have used Six Sigma to achieve breathtaking improvements in business performance, in everything from products to processes to complex systems and even in work environments. Over the past decade, over \$100 billion in bottom-line performance has been achieved through corporate Six Sigma programs. Yet, despite its astounding effectiveness, few outside of the community of Six Sigma practitioners know what Six Sigma is all about. With this book, Six Sigma is revealed to everyone. You might be in a company that's already implemented Six Sigma, or your organization may be considering it. You may be a student who wants to learn how it works, or you might be a seasoned business professional who needs to get up to speed. In any case, *Six Sigma For Dummies* is the most straightforward, non-intimidating guide on the market. This simple, friendly book makes Six Sigma make sense. With a compelling foreword by Dr. Stephen R. Covey, the internationally recognized leadership authority and bestselling author of *The Seven Habits of Highly Effective People* and *The 8th Habit*, and an afterword by Roxanne O'Brasky, President of the International Society of Six Sigma, *Six Sigma For Dummies* is the most complete and objective book in the market today. Unlike most other works that are either graduate-level statistics treatises or thinly-veiled autobiographical success stories, *Six Sigma For Dummies* teaches the reader all the foundation principles, methods, and tools of this magnificent problem-solving system. Intended to help readers understand Six Sigma and how they can use it to improve their performance, this no-nonsense guide explains: What Six Sigma is all about and how it works The benefits of Six Sigma in organizations and businesses The powerful "DMAIC" problem-solving roadmap Yellow, Green and Black -- how the Six Sigma "belt" system works How to select and utilize the right tools and technologies Speaking the language of Six Sigma Knowing the roles and responsibilities Mastering the statistics skills and analytical methods *Six Sigma For Dummies* will become everyone's No. 1 resource for discovering and mastering the world's most famous and powerful improvement tool. Stephen Covey is spot-on when he says, "Six Sigma For Dummies is a book to be read by everyone".

24 Lessons to Understand and Apply Six Sigma Principles in Any Organization John Wiley & Sons

Lean Six Sigma is helping to vitalize many small and large

organizations by paying attention to the customer's needs and providing processes with smaller amounts of variation to consistently meet and even exceed those needs. This task is completed when the organization understands its processes better and controls those inputs and the process variations that will affect the customer's needs the most. The intent of this book is to develop the concepts of the Twelve Pillars, which support the Six Sigma improvement process, tie this to both the Malcolm Baldrige National Quality Award and lean, and then to cover the areas that should be considered during the implementation of the Six Sigma process. The executive management of every organization must read this book to establish the foundation for the Lean Six Sigma concepts to hold and become part of the operating style of the corporation. The tools discussed in this book are just as applicable to making management decisions based on data as they are for the Black Belts and Knowledge Workers of the process.

Measuring Process Capability Emerald Group Publishing
This hands-on book presents a complete understanding of Six Sigma and Lean Six Sigma through data analysis and statistical concepts. In today's business world, Six Sigma, or Lean Six Sigma, is a crucial tool utilized by companies to improve customer satisfaction, increase profitability, and enhance productivity. *Practitioner's Guide to Statistics and Lean Six Sigma for Process Improvements* provides a balanced approach to quantitative and qualitative statistics using Six Sigma and Lean Six Sigma methodologies. Emphasizing applications and the implementation of data analyses as they relate to this strategy for business management, this book introduces readers to the concepts and techniques for solving problems and improving managerial processes using Six Sigma and Lean Six Sigma. Written by knowledgeable professionals working in the field today, the book offers thorough coverage of the statistical topics related to effective Six Sigma and Lean Six Sigma practices, including: Discrete random variables and continuous random variables Sampling distributions Estimation and hypothesis tests Chi-square tests Analysis of variance Linear and multiple regression Measurement analysis Survey methods and sampling techniques The authors provide numerous opportunities for readers to test their understanding of the presented material, as the real datasets, which are incorporated into the treatment of each topic, can be easily worked with using Microsoft Office Excel, Minitab, MindPro, or Oracle's Crystal Ball software packages. Examples of successful, complete Six Sigma and Lean Six Sigma projects are supplied in many chapters along with extensive exercises that range in level of complexity. The book is accompanied by an extensive FTP site that features manuals for working with the discussed software packages along with additional exercises and data sets. In addition, numerous screenshots and figures guide readers through the functional and visual methods of learning Six Sigma and Lean Six Sigma. *Practitioner's Guide to Statistics and Lean Six Sigma for Process Improvements* is an excellent book for courses on Six Sigma and statistical quality control at the upper-undergraduate and graduate levels. It is also a valuable reference for professionals in the fields of engineering, business, physics, management, and finance.

Design for Six Sigma Routledge
Current books on Lean Six Sigma for service or transactional organizations either require a significant technical background, or are rather conceptual in nature and lack the detail of the tools, how to use them, and the practical skill-building exercises needed to give readers the ability to actually implement Lean Six Sigma in their

Six Sigma For Dummies Asq Press

Process Capability Analysis: Estimating Quality presents a systematic exploration of process capability analysis and how it may be used to estimate quality. The book is designed for practitioners who are tasked with insuring a high level of quality for the products and services offered by their organizations. Along with describing the necessary statistical theory, the book illustrates the practical application of the techniques to data that do not always satisfy the standard assumptions. The first two chapters deal with attribute data, where the estimation of quality is restricted to counts of nonconformities. Both classical and Bayesian methods are discussed. The rest of the book deals with variable data, including extensive discussions of both capability indices and statistical tolerance limits. Considerable emphasis is placed on methods for handling non-normal data. Also included are discussions of topics often omitted in discussions of process capability, including multivariate capability indices, multivariate tolerance limits, and capability control charts. A separate chapter deals with the problem of determining adequate sample sizes for estimating process capability. Features: □ Comprehensive treatment of the subject with consistent theme of estimating percent of nonconforming product or service. □ Includes Bayesian methods. □ Extension of univariate techniques to multivariate data. □ Demonstration of all techniques using Statgraphics data analysis software. Neil Polhemus is Chief Technology Officer at Statgraphics Technology and the original developer of the Statgraphics program for statistical analysis and data visualization. Dr. Polhemus spent 6 years on the faculty of the School of Engineering and Applied Science at Princeton University before moving full-time to software development and consulting. He has taught courses dealing with statistical process control, design of experiments and data analysis for more than 100 companies and government agencies.

John Wiley & Sons

Six Sigma for Managers is a practical overview on how to implement Six Sigma practices in everyday business. Emphasizing straightforward explanations instead of complex charts and statistics, it shows managers how to map processes, measure smart, and follow other Six Sigma principles. *An Introduction to Six Sigma and Process Improvement* CRC Press
A comprehensive reference manual to the Certified Six Sigma Black Belt Body of Knowledge and study guide for the CSSBB exam.

Cut Costs, Reduce Waste, and Lower Your Overhead Process Capability Analysis for Quality and Lean Six Sigma This book provides detailed analysis, methods, and computer applications related to process capability analysis. The highlights are summarized below: (1) concepts and overview of systems and processes emphasizing that the process capability analysis is applied to a process and any process is part of a system. Since the process capability is about the study of variation and variation reduction; the initial chapters are devoted to the study of process variation and how the variation affects the product and service quality. (2) relationship of process capability analysis to Six Sigma. (3) assessing process capability using widely used methods - histograms, probability plots, and control charts using examples and computer instructions, (4) examples and calculations to demonstrate the applications of process capability for normally distributed data, (5) computer analyses and cases with step-wise computer instructions and reports using MINITAB software, (6) process capability analysis of non-normal data using the methods such as Box-Cox, Johnson and distribution-fit approaches, (7) examples and cases with MINITAB computer instructions along with the downloadable data files, and (8) the methods of assessing process capability using variables and attribute control charts. The data files for the cases are provided

that will allow the users to generate process capability report using the computer instructions and interpret the results. A number of examples both manual and using computer, and cases with computer instructions, computer generated reports are explained clearly. Three appendices are provided at the end. Appendix A provides a review of statistical methods useful in the study of quality and process capability analysis, Appendix B and C provide the necessary statistical tables. These include standard normal tables for a 3-sigma and 6-sigma process, and the tables for control charts. *Process Capability Analysis Estimating Quality Books in the Quality and Business Excellence series* can help readers enhance customer value and satisfaction by integrating the customer's voice into design, manufacturing, supply chain, and field processes. Although there are many Six Sigma books on the market, few clarify the essential aspects of its implementation across various industries. *The Tactical Guide to Six Sigma Implementation* fills this need. Simplifying a complex subject and removing the intimidation of using statistics, the book takes readers through the five phases of the Six Sigma methodology—Define-Measure-Analyze-Improve-Control (DMAIC). In ten clearly written and easy-to-understand chapters, readers learn the purpose of each phase and what activities must be performed in each phase. The book illustrates the layout of the interaction of organizational processes—defining product and information flows separately such that each process receives product or information and, after completion of the process, supplies the output to the next process. The author identifies organizational processes through turtle and SIPOC diagrams, defining the process owner, inputs and outputs, and process customer for each process. He also explains how to determine the measures and goals of the process, and how to document the process so that further process improvements can be implemented through management reviews. The text presents a comprehensive process control plan assessment to comply with automotive, aerospace, and all types of manufacturing and service processes. It details 17 global quality management system processes covering management responsibility, resource management, product realization policies, and management analysis and improvement policies. It also provides comprehensive root cause analysis and problem solving techniques. Numerous figures, charts, formulae and forms are included throughout the book and all statistics are described to the exact level of understanding required. Books in this series are suitable for use as basic textbooks for Green Belt, Black Belt, BBA, and MBA courses in global quality, Lean Six Sigma, and business excellence.

The Ten Commandments of Lean Six Sigma CRC Press

INCREASE your odds of learning STATISTICAL process control (SPC) Identify and reduce variation in business processes using SPC--the powerful analysis tool for process evaluation and improvement. *Statistical Process Control Demystified* shows you how to use SPC to enable data-driven decision making and gain a competitive advantage in the marketplace. Written in a step-by-step format, this practical guide explains how to analyze process data, collect data, and determine the suitability of a process in meeting requirements. Attribute and X-bar control charts are discussed, as are charts for individuals data. You'll also get details on process improvement and measurement systems analysis. Detailed examples, calculations, and statistical assumptions make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce key concepts. It's a no-brainer! You'll learn about: Control chart interpretation Overcoming common errors in the use of SPC and general statistical analysis tools Sampling requirements Analysis using Excel Estimating process variation Designed experiments

Measurement systems analysis, including R&R studies Continuous process improvement strategies Simple enough for a beginner, but challenging enough for an advanced student, *Statistical Process Control Demystified* is your shortcut to this powerful analysis solution.

Six Sigma Case Studies with Minitab® CRC Press

Creating a universal language for problem solving, *The Practical Application of the Process Capability Study: Evolving from Product Control to Process Control* delineates the process capability study, a powerful tool that, when understood and implemented, provides benefits to every department within a manufacturing organization. With easy to read, step-by-step flow diagrams on how to perform process capability studies and measurement process analyses, the book's coverage includes: The benefits of statistical process control over statistical product control Real-world industrial examples and case studies illustrating how to use the techniques Ways for management to determine if the investment in process capability studies is providing an appropriate return Methods to correct lack of stability and capability once either condition has been identified, such as the ANOVA technique and the simple three-factor designed experiment A flow chart that enables machine operators to execute a process capability study without interfering with productivity A great deal of information is available on the technical concepts of the process capability study, much of it emphasizing the mathematics. Unfortunately, concentrating on the math and fine distinctions, such as the difference between alpha- and beta-type errors, has created barriers preventing many from fully appreciating the basic concepts, the simplicity, and the usefulness of the tool. This book shows you how to use the process capability study to increase return on investment from your statistical process control/Six Sigma effort and make your company more competitive.

Six Sigma Quality Improvement with Minitab John Wiley & Sons

This book is a comprehensive guideline for the Management of processes and quality by applying LEAN and SIX SIGMA. It includes various statistical tools and applications for Minitab. Additional several Management tools and models are presented, useful in combination with a SIX SIGMA approach. Lean - SIX SIGMA is a powerful tool for Management and improvements in efficiencies to be applied on all levels in an organization. SIX SIGMA is also used to solve complex problems in the process or can be developed as a company value or company culture, dedicated to quality and change. With the necessary support by Senior Management all key staff members in the company should familiar with the methodologies presented here to achieve the benefits from Lean - SIX SIGMA.

The Tactical Guide to Six Sigma Implementation McGraw Hill Professional

Six Sigma has taken the corporate world by storm and represents the thrust of numerous efforts in manufacturing and service organizations to improve products, services, and processes. Although Six Sigma brings a new direction to quality and productivity improvement, its underlying tools and philosophy are grounded in the fundamental principles of total quality and continuous improvement that have been used for many decades. Nevertheless, Six Sigma has brought a renewed interest in quality and improvement that few can argue with, and has kept alive the principles of total quality developed in the latter part of the 20th Century. AN INTRODUCTION TO SIX SIGMA AND PROCESS IMPROVEMENT, 2e shows students the essence and basics of Six Sigma, as well as how Six Sigma has brought a renewed interest in the principles of total quality to cutting-edge businesses. Important Notice: Media content referenced within

the product description or the product text may not be available in the ebook version.

A Guide for Practitioners BoD – Books on Demand

This hands-on book presents a complete understanding of Six Sigma and Lean Six Sigma through data analysis and statistical concepts. In today's business world, Six Sigma, or Lean Six Sigma, is a crucial tool utilized by companies to improve customer satisfaction, increase profitability, and enhance productivity. *Practitioner's Guide to Statistics and Lean Six Sigma for Process Improvements* provides a balanced approach to quantitative and qualitative statistics using Six Sigma and Lean Six Sigma methodologies. Emphasizing applications and the implementation of data analyses as they relate to this strategy for business management, this book introduces readers to the concepts and techniques for solving problems and improving managerial processes using Six Sigma and Lean Six Sigma. Written by knowledgeable professionals working in the field today, the book offers thorough coverage of the statistical topics related to effective Six Sigma and Lean Six Sigma practices, including: Discrete random variables and continuous random variables Sampling distributions Estimation and hypothesis tests Chi-square tests Analysis of variance Linear and multiple regression Measurement analysis Survey methods and sampling techniques. The authors provide numerous opportunities for readers to test their understanding of the presented material, as the real data sets, which are incorporated into the treatment of each topic, can be easily worked with using Microsoft Office Excel®, Minitab®, MindPro®, or Oracle's Crystal Ball® software packages. Examples of successful, complete Six Sigma and Lean Six Sigma projects are supplied in many chapters along with extensive exercises that range in level of complexity. The book is accompanied by an extensive FTP site that features manuals for working with the discussed software packages along with additional exercises and data sets. In addition, numerous screenshots and figures guide readers through the functional and visual methods of learning Six Sigma and Lean Six Sigma. *Practitioner's Guide to Statistics and Lean Six Sigma for Process Improvements* is an excellent book for courses on Six Sigma and statistical quality control at the upper-undergraduate and graduate levels. It is also a valuable reference for professionals in the fields of engineering, business, physics, management, and finance.

Handbook of Multivariate Process Capability Indices McGraw Hill Professional

What happens when one of the most widely used quality improvement methodologies meets the world's leading statistical software for quality improvement? Packed with case studies in a variety of sectors, including health care, manufacturing, airlines, and fast food restaurants, *Six Sigma Case Studies with Minitab®* shows you how to maximize the quality analysis and improvement tools available in Minitab® for your Six Sigma

projects. Highly illustrated, the book includes detailed steps and more than 380 screenshots that explain how to use: Confidence Interval Estimation Hypothesis Testing Chi-Square Analysis Process Capability Analysis Binary Logistic Regression Item Analysis Cluster Analysis Mixture Design and Analysis of Experiments Multivariate Analysis Pareto Charts Cause-and-Effect Diagram Gage Repeatability and Reproducibility Analysis Taguchi Design and Analysis of Experiments Factorial Design and Analysis of Experiments Statistical Control Charts. The case studies demonstrate the wide range of sectors and uses for Six Sigma and Minitab®. The screenshots provide exceptional detail and the book includes explanations for many Six Sigma terms and an appendix with the contents of the Minitab® worksheets that are referred to in most of the chapters. These features and more give you the tools to meet the challenges of continuous improvement expected in today's marketplace.

Sustainability John Wiley & Sons

Process Capability Analysis for Quality and Lean Six Sigma Encyclopedia And Handbook Of Process Capability Indices: A Comprehensive Exposition Of Quality Control Measures CRC Press
Process Capability Analysis: Estimating Quality presents a systematic exploration of process capability analysis and how it may be used to estimate quality. The book is designed for practitioners who are tasked with insuring a high level of quality for the products and services offered by their organizations. Along with describing the necessary statistical theory, the book illustrates the practical application of the techniques to data that do not always satisfy the standard assumptions. The first two chapters deal with attribute data, where the estimation of quality is restricted to counts of nonconformities. Both classical and Bayesian methods are discussed. The rest of the book deals with variable data, including extensive discussions of both capability indices and statistical tolerance limits. Considerable emphasis is placed on methods for handling non-normal data. Also included are discussions of topics often omitted in discussions of process capability, including multivariate capability indices, multivariate tolerance limits, and capability control charts. A separate chapter deals with the problem of determining adequate sample sizes for estimating process capability. Features: ???????? Comprehensive treatment of the subject with consistent theme of estimating percent of nonconforming product or service. ???????? Includes Bayesian methods. ???????? Extension of univariate techniques to multivariate data. ???????? Demonstration of all techniques using Statgraphics data analysis software. Neil Polhemus is Chief Technology Officer at Statgraphics Technology and the original developer of the Statgraphics program for statistical analysis and data visualization. Dr. Polhemus spent 6 years on the faculty of the School of Engineering and Applied Science at Princeton University before moving full-time to software development and consulting. He has taught courses dealing with statistical process control, design of experiments and data analysis for more than 100 companies and government agencies.