

Frontiers in Statistical Quality Control

Sven Knoth  
Wolfgang Schmid *Editors*

# Frontiers in Statistical Quality Control 13

 Springer

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**Hans-Joachim Lenz, G. Barry  
Wetherill, Peter-Theodor Wilrich**



## **Frontiers In Statistical Quality Control:**

Frontiers in Statistical Quality Control 9 Hans-Joachim Lenz, Peter-Theodor Wilrich, Wolfgang Schmid, 2010-03-10 The twenty three papers in this volume are carefully selected reviewed and revised for this volume and are divided into two parts Part 1 On line Control with subchapters 1 1 Control Charts and 1 2 Surveillance Sampling and Sampling Plans and Part 2 Off line Control

Frontiers in Statistical Quality Control 8 Hans-Joachim Lenz, Peter-Theodor Wilrich, 2006-08-08 In Canada acceptance sampling has been used in legal metrology applications for nearly four decades One of its principal uses has been in the quality control of utility meters that measure electricity or natural gas supplied to consumers By law such meters must be inspected for conformance to specification requirements prior to use and be periodically inspected while in use With few exceptions due to the numerous utility companies in the country and their varied practices the meters exist in the form of isolated lots for inspection purposes The proportion of nonconforming meters in a lot has traditionally defined lot quality for utility meter sampling inspection purposes Another principal application of acceptance sampling has been in the quality control of the net contents of packaged products sold in the marketplace Such products include those sold on the basis of such measures as weight volume length and area In this particular application products are also usually inspected on an isolated lot basis for regulatory purposes However lot quality is usually measured on the basis of two criteria for such products the proportion of nonconforming packages in the lot and the lot mean quantity This section reviews Canadian quality control practices in these two areas of application highlighting some of the deficiencies and issues Three class sampling plans are proposed as a possible solution to some of these deficiencies and issues

**Frontiers in Statistical Quality Control 13** Sven Knoth, Wolfgang Schmid, 2021-05-15 This contributed book focuses on major aspects of statistical quality control shares insights into important new developments in the field and adapts established statistical quality control methods for use in e g big data network analysis and medical applications The content is divided into two parts the first of which mainly addresses statistical process control also known as statistical process monitoring In turn the second part explores selected topics in statistical quality control including measurement uncertainty analysis and data quality The peer reviewed contributions gathered here were originally presented at the 13th International Workshop on Intelligent Statistical Quality Control ISQC 2019 held in Hong Kong on August 12 14 2019 Taken together they bridge the gap between theory and practice making the book of interest to both practitioners and researchers in the field of statistical quality control

**Frontiers in Statistical Quality Control 12** Sven Knoth, Wolfgang Schmid, 2018-06-15 This book provides insights into important new developments in the area of statistical quality control and critically discusses methods used in on line and off line statistical quality control The book is divided into three parts Part I covers statistical process control Part II deals with design of experiments while Part III focuses on fields such as reliability theory and data quality The 12th International Workshop on Intelligent Statistical Quality Control Hamburg Germany August 16 19 2016 was jointly organized by Professors

Sven Knoth and Wolfgang Schmid The contributions presented in this volume were carefully selected and reviewed by the conference s scientific program committee Taken together they bridge the gap between theory and practice making the book of interest to both practitioners and researchers in the field of quality control **Frontiers in Statistical Quality Control**

**11** Sven Knoth,Wolfgang Schmid,2015-04-24 The main focus of this edited volume is on three major areas of statistical quality control statistical process control SPC acceptance sampling and design of experiments The majority of the papers deal with statistical process control while acceptance sampling and design of experiments are also treated to a lesser extent The book is organized into four thematic parts with Part I addressing statistical process control Part II is devoted to acceptance sampling Part III covers the design of experiments while Part IV discusses related fields The twenty three papers in this volume stem from The 11th International Workshop on Intelligent Statistical Quality Control which was held in Sydney Australia from August 20 to August 23 2013 The event was hosted by Professor Ross Sparks CSIRO Mathematics Informatics and Statistics North Ryde Australia and was jointly organized by Professors S Knoth W Schmid and Ross Sparks The papers presented here were carefully selected and reviewed by the scientific program committee before being revised and adapted for this volume Frontiers in Statistical Quality Control 7 Hans-Joachim Lenz,Peter-Theodor Wilrich,2012-12-06 This

volume treats the four main categories of Statistical Quality Control General SQC Methodology On line Control including Sampling Inspection and Statistical Process Control Off line Control with Data Analysis and Experimental Design and fields related to Reliability Experts with international reputation present their newest contributions *Frontiers in Statistical Quality Control* Hans-Joachim Lenz,G. Barry Wetherill,Peter-Theodor Wilrich,1992-10-12 Like the first three volumes published in 1981 1984 and 1987 and met with a lively response the present volume is collecting contributions stressed on methodology or successful industrial applications The papers are classified under three main headings sampling inspection process quality control and experimental design In the first group there are nine papers on acceptance sampling The second large group of papers deal with control charts and process control and the third group of papers includes contributions on experimental design *Frontiers in Statistical Quality Control 6* Hans-Joachim Lenz,Peter-Theodor Wilrich,2012-12-06 In

the 1920 s Walter Shewhart visualized that the marriage of statistical methods and manufacturing processes would produce reliable and consistent quality products Shewhart 1931 conceived the idea of statistical process control SPC and developed the well known and appropriately named Shewhart control chart However from the 1930s to the 1990s literature on SPC schemes have been captured by the Shewhart paradigm of normality independence and homogeneous variance When in fact the problems facing today s industries are more inconsistent than those faced by Shewhart in the 1930s As a result of the advances in machine and sensor technology process data can often be collected on line In this situation the process observations that result from data collection activities will frequently not be serially independent but autocorrelated Autocorrelation has a significant impact on a control chart the process may not exhibit a state of statistical control when in

fact it is in control As the prevalence of this type of data is expected to increase in industry Hahn 1989 so does the need to control and monitor it Equivalently literature has reflected this trend and research in the area of SPC with autocorrelated data continues so that effective methods of handling correlated data are available This type of data regularly occurs in the chemical and process industries and is pervasive in computer integrated manufacturing environments clinical laboratory settings and in the majority of SPC applications across various manufacturing and service industries Alwan 1991

**Frontiers in Statistical Quality Control 5** Hans-Joachim Lenz,Peter-Theodor Wilrich,2013-03-07 Like the preceding volumes and met with a lively response the present volume is collecting contributions stressed on methodology or successful industrial applications The papers are classified under four main headings sampling inspection process quality control data analysis and process capability studies and finally experimental design

**Frontiers in Statistical Quality Control 6** Hans-Joachim Lenz,Peter-Theodor Wilrich,2001-01-30 The book is a collection of papers presented at the 5th International Workshop on Intelligent Statistical Quality Control in Würzburg Germany Contributions deal with methodology and successful industrial applications They can be grouped in four categories Sampling Inspection Statistical Process Control Data Analysis and Process Capability Studies and Experimental Design

**Frontiers in Statistical Quality Control** Hans-Joachim Lenz,G. Barry Wetherill,Peter-Theodor Wilrich,2013-06-29 Like the first three volumes published in 1981 1984 and 1987 and met with a lively response the present volume is collecting contributions stressed on methodology or successful industrial applications The papers are classified under three main headings sampling inspection process quality control and experimental design In the first group there are nine papers on acceptance sampling The second large group of papers deal with control charts and process control and the third group of papers includes contributions on experimental design

**Frontiers in Statistical Quality Control 14** Sven Knoth,Wolfgang Schmid,2025-10-30 This book examines major areas of statistical quality control with a focus on sharing insights into important new developments in the field and adapting established statistical quality control methods for use in various fields of application including business finance environmental science engineering and health It is divided into two parts the first addressing statistical process monitoring and the second exploring selected topics in statistical quality control including the design of experiments and data quality Compiling peer reviewed contributions originally presented at the 14th International Workshop on Intelligent Statistical Quality Control ISQC 2023 held in Washington DC USA on August 15 17 2023 the book bridges the gap between theory and practice making it of interest to both researchers and practitioners in the field of statistical quality control

**Frontiers in Statistical Quality Control 10** ,2012-08-31 **Frontiers in Statistical Quality Control 9** Hans-Joachim Lenz,Peter-Th. Wilrich,Wolfgang Schmid,2010-03-11 The twenty three papers in this volume are carefully selected reviewed and revised for this volume and are divided into two parts Part 1 On line Control with subchapters 1 1 Control Charts and 1 2 Surveillance Sampling and Sampling Plans and Part 2 Off line Control

**Frontiers in Statistical Quality Control 7** Hans-Joachim

Lenz, Peter-Theodor Wilrich, 2004-02-10 This volume treats the four main categories of Statistical Quality Control General SQC Methodology On line Control including Sampling Inspection and Statistical Process Control Off line Control with Data Analysis and Experimental Design and fields related to Reliability Experts with international reputation present their newest contributions *Frontiers in Statistical Quality Control 3* Hans-Joachim Lenz, G. Barrie Wetherill, Peter-Theodor Wilrich, 1987

**Frontiers in Statistical Quality Control**, 1987 Frontiers in Statistical Quality Control 2. H. J. Lenz, G. B. Wetherill, Peter-Theodor Wilrich, 1984 **Frontiers in Statistical Quality Control 4** G. Barrie Wetherill, 1992 Frontiers in Statistical Quality Control 10 Hans-Joachim Lenz, Wolfgang Schmid, Peter-Theodor Wilrich, 2012-08-04 The 10th International Workshop on Intelligent Statistical Quality Control took place in Seattle USA Aug 18 20 2010 It was hosted by Professor C M Mastrangelo Department of Industrial and Systems Engineering University of Washington Seattle The workshop was jointly organized by Professors H J Lenz C M Mastrangelo W Schmid and P T Wilrich The twenty seven papers in this volume were carefully selected by the scientific program committee reviewed by its members revised by the authors and finally adapted for this volume by the editors The book is divided into two parts Part I On line Control covers fields like control charting monitoring and surveillance as well as acceptance sampling Part II Off line Control is devoted to experimental design process capability analysis and data quality The purpose of the book is on the one hand to provide insights into important new developments in the area of statistical quality control especially surveillance and monitoring and on the other hand to critically discuss methods used in on line and off line statistical quality control

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