



Quality Control (8th Edition)

By Dale H. Besterfield Ph.D. P.E.



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Practical and state-of-the-art in approach, *Quality Control, Eighth Edition* provides fundamental—yet comprehensive—coverage of quality control concepts. Sufficient theory is presented to ensure that readers gain a sound understanding of the basic principles of quality control. The substantial use of probability and statistical techniques is reduced to simple mathematics or is developed in the form of tables and charts. Professional organizations and industrial corporations have found the book an excellent training manual for instruction of manufacturing, quality, inspection, marketing, purchasing, and product design personnel.



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Editorial Review

From the Publisher

This book provides a fundamental, yet comprehensive, coverage of quality control concepts. A practical state-of-the-art approach is stressed throughout. Sufficient theory is presented to ensure that the student has a sound understanding of the basic principles of quality control. The use of probability and statistical techniques is reduced to simple mathematics or is developed in the form of tables and charts.

From the Inside Flap PREFACE

This book provides a fundamental, yet comprehensive, coverage of quality control concepts. A practical state-of-the-art approach is stressed throughout. Sufficient theory is presented to ensure that the reader has a sound understanding of the basic principles of quality control. The use of probability and statistical techniques is reduced to simple mathematics or is developed in the form of tables and charts.

The book has served the instructional needs of technology students in technical institutes, community colleges, and universities. It has also been used by undergraduate and graduate business students. Professional organizations and industrial corporations have found the book an excellent training manual for instruction of manufacturing, quality, inspection, marketing, purchasing, and product design personnel.

Quality Control, Sixth Edition, begins with an introductory chapter about quality responsibility and two chapters that describe total quality management. These chapters are followed by chapters on fundamentals of statistics, control charts for variables, additional SPC techniques for variables, fundamentals of probability, and control charts for attributes. A subsequent group of chapters describes acceptance sampling and reliability.

This Sixth Edition includes a complete updating of all material. It also includes a new CDROM of data files that uses EXCEL.

I am indebted to the publishers and authors who have given permission to reproduce their charts, graphs, and tables. I thank Dr. Samuel C. Obi, San Jose State University (CA), Dr. Hugh K. Rogers, University of Central Florida, Tomas Velasco, Southern Illinois University, Carl R. Williams, University of Memphis (TN), for reviewing the manuscript. Professors, practitioners, and students throughout the world have been most helpful in pointing out the need for further clarification and additional material in this Sixth Edition.

Dale H. Besterfield

From the Back Cover

Quality Control, Eighth Edition takes a practical approach to providing a fundamental yet comprehensive coverage of statistical quality control concepts. This text presents readers with a sufficient amount of theory to ensure a sound understanding of the basic principles of quality control. Probability and statistical techniques are presented through the use of simple mathematics, as well as with tables and charts.

This text is designed to be used in an introductory course in the quality field. It provides the prerequisite foundation necessary for an advanced course in experimental design.

Key features of this edition:

- Objectives in each chapter
- Statistical information added to six sigma
- New information on sample size and confidence limits
- A new section on test design with footnotes directing the reader to advanced material
- Numerous figures and tables to help clarify and reinforce concepts presented
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