



Fundamentals of Quality Control and Improvement

Amitava Mitra

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Fundamentals of Quality Control and Improvement Amitava Mitra

Rooted in statistics, this book presents real-world applications of quality control incorporating modern ideas, methods and philosophies into total quality management, it focuses on statistical process control and related subjects, such as the achievement of product and process quality through experimental design. With examples to demonstrate applications, this book presents foundations of modern quality control and improvements applicable to manufacturing and service industries. It also presents principles of acceptance sampling and reliability to provide a complete reference. Philosophy and fundamentals statistical foundations and methods of quality improvement statistical process control acceptance sampling product and process design table of contents: preface philosophy and fundamentals introduction to quality control and the total quality system some philosophies and their impact on quality quality management: practices, tools and standards statistical foundations and methods of quality improvement fundamentals of statistical concepts and techniques in quality control and improvement data analyses and sampling statistical process control statistical process control using control charts control charts for variables control charts for attributes process capability analyses acceptance sampling acceptance sampling plans for attributes and variables product and process design reliability experimental design and the taguchi method appendixes cumulative binomial distribution cumulative poisson distribution cumulative standard normal distribution values of t for a specified right-tail area chi-squared values for a specified right-tail area values of f for a specified right-tail area factors for computing center line and three-sigma control limits uniform random numbers index

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