

Part II

Statistics for Quality Control

This part includes two chapters about basic Statistics, needed to perform statistical quality control. The techniques explained throughout the book make use of basic concepts such as mean, variance, sample, population, probability distribution, etc. A practical approach is followed, without details about the mathematical theory. Chapter 5 reviews descriptive statistics, probability, and statistical inference with quality control examples illustrated with the R software. Chapter 6 tackles the crucial task of appropriately taking samples from a population, using intuitive examples and R capabilities.