Statistical Methods for Quality: With Applications to Engineering & Management : by Irwin Miller and Marylees Miller, Prentice Hall, 1995, pp368 ;$NA

This is one of the few books that successfully and seamlessly explores the statistical methods and its application in the quality and quality improvement. This book is for the novice user of statistics and for those readers who like to understand modern practice of quality methods which includes statistical methods as an important ingredient.

The terms statistics and quality are briefly introduced in the Chapter 1. The modern concept of quality and practices are further examined in the Chapter 2. For those readers who are not familiar with the modern quality movement and its leaders in the field, this chapter provides a short and comprehensive review. Total Quality Management get a terse and nice treatment here. The rest of the book arranged in a traditional statistical topic order. It includes probability distributions, sampling , statistical inferences, statistical process control, regression, design of experiments and reliability. At the end of each chapter, there is a section titled as "Application to Quality". In this section it explores the application of the methods just learned in the chapter to the quality improvement.

A few typo can be found in the book, one is in section 5.2, page 105 , the denominator for z should be $\sqrt{np(1-p)}$, and another one is in page 286 third line from the bottom of third paragraph, it should be "D and C" instead of "B and C".

As an introductory text book, this book has successfully achieved its purpose of showing the readers how to apply the theory taught to them to their work.

Shin Ta Liu
Lynx Systems, San Diego

bkrw0895.doc