## CONTENTS

CHAPTER 1 THE NATURE OF SPC Definition; History;

	Quality Control Functions; Variation; Quality Costs; Controlling Quality Costs; SPC Philosophy	1
CHAPTER 2	DATA ORGANIZATION Organizing into Cells; Discrete versus Continuous; Frequency Distributions; Measures of Central Tendency; Measures of Dispersion; Practice Problems	24
CHAPTER 3	THE NORMAL CURVE Characteristics of the Normal; Area Under the Curve; Applications; Economic Analysis; Practice Problems	45
CHAPTER 4	BASIC CONTROL CHARTS Theory and Construction; Variable Charts; Attribute Charts for Defectives; Attribute Charts for Defects; Practice Problems	67
CHAPTER 5	CONTROL CHARTS FOR SHORT PRODUCTION RUNS Control Charts for Individual Values; Moving Average, Moving Range Chart; Control Charts Using Specification Limits; Pre-Control Charts; Using p Charts for Short Production Runs; Charts Using Zero-Base Coding; Charts Using Constant Control Limits; Practice Problems	108
	Applications; Economic Analysis; Practice Problems  BASIC CONTROL CHARTS Theory and Construction; Variable Charts; Attribute Charts for Defectives; Attribute Charts for Defects; Practice Problems  CONTROL CHARTS FOR SHORT PRODUCTION RUNS Control Charts for Individual Values; Moving Average, Moving Range Chart; Control Charts Using Specification Limits; Pre-Control Charts; Using p Charts for Short Production Runs; Charts Using Zero-Base Coding; Charts Using Constant Control Limits; Practice	6

309

CONTENT	rs			vi
Table	A2	Poisson Tables	311	
Table	e A3	Percentiles of the $t$ Distribution	316	
Table A4	Factors for Computing $3\sigma$ Control Chart Limits	010		
		317		
Table	A5	Weibull Ranking Percentiles	318	
Table	A6	Table of Chi-Square	324	
Table	A7	Percentiles of the $F$ Distribution	325	
BIBLIOGRAPHY				328
INDEX				330