## **CONTENT**

		Page
1.	ELEMENTS OF QUALITY Importance of Quality Quality and the Production System Control of Quality	1 1 2 3
	Standards for Quality	12
2.	THE QUALITY SYSTEM The Quality –Control Function System concepts Quality System Quality Planning Quality Control	17 17 19 22 24 31
3.	QUALITY COSTS Income-Expansion Expenditures Cost-Reduction Expenditures	44 44 46
4.	THE TECHNICAL SPECIFICATIONS The Tolerance Problem Nomenclature of Specifications Determining the Specifications	68 69 73 82
5.	SOME DESIGN CONSIDERATIONS Creating a New Product Cumulative Tolerances	87 87 91
6.	PROCESS CAPABILITY Some Statistical Concepts Process Capability Measures	99 102 113
7.	INTERCHANGEABILITY ALTERNATIVES Mathematics for Statistical Tolerances Statistical Tolerance Applications Statistical Tolerance Implementation	123 127 128 155
8.	PRODUCTION TOLERANCES Production Tolerance Tolerance Charts	170 170 172
9.	PROCESS CONTROL A Review of Hypothesis Testing Variables Control Charts Attributes Control Charts Moving Average and Range Charts Economics of Control Charts	179 180 187 202 209 214
10.	SAMPLING INSPECTION Sampling Fundamentals Operating Characteristic Curve Criteria for Evaluating Sampling Plans Economics of Sampling Inspection Standard Sampling Plans	224 226 230 235 248 254

The Measurement Problem Measurement Standards	265 268
Measurement Standards	
1.10 do di cili di di cili di di cili	275
Some Common Gages	275
Tool and Gage Control	299
12. QUALITY – CONTROL TRENDS	318
Quality-Control Trends	319
Computer Applications to Quality Control	322
Reliability and Quality Control	334
APPENDIX A	346
APPENDIX B	348
APPENDIX C	349
APPENDIX D	354
INDEX	419