

## CONTENTS

Chapter	Title	Page No.
0.	Introduction and Chapter-wise Summary	01
0.1	Introduction	01
0.2	Literature Survey	06
0.3	Chapter-wise Summary	07
1.	Introduction to Statistical Quality Control Charts	10
1.1	Introduction	10
1.2	Control Charts for Variables	17
1.3	Control Charts for Attributes	23
1.4	Performance of Control Chart	25
1.5	ARL Values of $\bar{X}$ -chart by Simulation	34
2.	Nonparametric Quality Control Charts Based on Sign Statistic	41
2.1	Introduction to Nonparametric Control Charts	41
2.2	NQCC Based on Sign Statistic	43
2.3	Curtailed sampling Plans	63
2.4	Limitations of Control Chart Based on Sign Statistic	69
3.	Nonparametric Quality Control Charts with Memory	71
3.1	Introduction	71
3.2	CUSUM Sign Chart	77
3.3	Nonparametric EWMA Control Chart	80
3.4	Nonparametric Quality Control charts with Supplementary Runs Rules	87

---

<b>Chapter</b>	<b>Title</b>	<b>Page No.</b>
<b>4.</b>	<b>Nonparametric Quality Control Charts for Variability</b>	<b>94</b>
4.1	Introduction	94
4.2	NQCC Based on Quartiles	95
4.3	Shewhart Sign Chart for Process Variability	100
	Using Quantiles	
4.4	Future Study	106
	Appendix	107
	Bibliography	114

---