

C O N T E N T S

Chapter No.	Title	Page No.
Chapter 1	Introduction to Zero Inflated Models	1
	1.1 Introduction	1
	1.2 Literature Survey	3
	1.3 Chapter wise Summary	6
Chapter 2	Estimation of the parameters in Zero Inflated Power Series Distribution	9
	2.1 Introduction to Power Series distribution	11
	2.2 Zero Inflated Power Series distribution(ZIPSD)	13
	2.3 Estimation of the parameters in ZIPSD	15
	2.4 Particular cases of ZIPSD	22
	2.5 Examples	43
Chapter 3	Testing Inflation parameter of the ZIPSD	57
	3.1 Introduction	57
	3.2 Testing Power Series Distribution vs ZIPSD	58
	3.3 Testing PD vs ZIPD	60
	3.4 Testing NBD vs ZINBD	69
	3.5 Testing BD vs ZIBD	73
	3.6 Asymptotic Confidence Interval	76



Chapter No.	Title	Page No.
Chapter 4	Testing parameter of the Power Series Distribution in ZIPSD	78
4.1	Introduction	78
4.2	Testing parameter of the Power Series Distribution in ZIPSD	79
4.3	Testing parameter of Poisson Distribution in ZIPD model	85
4.4	Simulation study	88
4.5	Asymptotic Confidence Interval	100
Chapter 5	Non – Zero Inflated Models	104
5.1	Introduction	104
5.2	Power Series Distribution Inflated at s	105
5.3	Estimation	106
5.4	Applications	112
5.5	Future plans	123
	Appendix 1	124
	Appendix 2	132
	Appendix 3	140
	Bibliography	143