

List of Figures

Figure		Page
2.1	Plots of density function $f(x; p, \theta)$: $\theta = 0.8, \delta = 0.2, x_0 = 0$.	71
2.2	Plots of survival function $S(t)$: $\theta = 0.8, \delta = 0, x_0 = 0$	71
2.3	Plots of failure rate function	72
2.4	Example-Murthy et al. (2004) data ($\delta = 1.0, p = 0.8$)	75
2.5	Example-Vannman's (1991) data ($\delta = 0.2, p = 0.3$)	75
4.1	Plot of $g(x)$: ($\theta = 12$)	115
4.2	Plot of $S(t)$: ($\theta = 12$)	115
4.3	pdf and survival function of SO_2 concentration in air data ($p = 0.9, \theta = 0.2365$)	128
4.4	pdf and survival function of NFHS-3 data ($p = 0.82759, \theta = 0.01396$)	129
5.1	Plots of density function of 10% censored data for varying $p, \alpha = 0.02, \theta = 0.01$	133
5.2	Plots of density function of 10% censored data for varying $\alpha, p = 0.8$ and $\theta = 0.01$	134
5.3	Plots of survival function of 10% censored data for varying $\alpha, p = 0.8$ and $\theta = 0.01$	134
5.4	Plots of density functions at varying p for Vannman's dataset	155
5.5	Plots of survival functions with varying α for Vannman's dataset	155
6.1	Density function plots of 30% censored data	160
6.2	Survival function plots of 30% censored data	161
6.3	Histogram and theoretical densities for breast tumor size data	189
6.4	Histogram and theoretical densities for NFHS-3 data	189

6.5	Density function and survival function of Breast tumor size data	190
6.6	Density function and survival function of NFHS-3 data	190
7.1	Density plot to various data sets censored at value c^*	218
7.2	Survival function plot to various data sets censored at value c^*	218