## CONTENTS

			Page
Chapter	I	Introduction	001
Chapter	II	Multivariate IFR/DFR Distributions.	·
	2.1	Introduction	10
	2.2	MIFR class due to Brindley and Thompson	10
	2.3	MIHR class due to Harris	19
	2.4	The MDHR class	2 <b>7</b>
	2.5	A subclass of bivariate IHR distributions	29
Chapter	III	Multivariate IFRA Distributions.	i I
	3.1	Introduction	3 <b>6</b>
	3.2	Multivariate IFRA conditions due to Esary and Marshall	37
	3.3	Inter-relationships among the conditions	39
	3.4	Counter Examples	48
	3.5	Some properties of the conditions	5 <b>3</b>
	3.6	The MIFRA class due to Block and Savits	57
	3.7	Examples of Multivariate IFRA distributions	61
	3.8	A modification of definition of MIFRA class	71
Chapter	IV	Multivariate NBU Distributions.	
	4.1	Introduction	81
	4.2	The MNBU [1] class	82
	4.3	Closure properties of the class MNBU [1]	91
	4.4	Examples of MNBU [1] distributions	94
	4.5	The MNBU [2] class	97
	4.6	Closure properties of the class MNBU [2]	101
	4.7	Relation between MNBU [1] and MNBU [2] classes	107