

## CONTENTS

CHAPTER	SECTION	TITLE	PAGE
I		<u>INTRODUCTION AND PREREQUISITES</u>	
		A : Introduction	
	1.1	Brief History	1
	1.2	Chapter-wise Summary	4
		B : Prerequisites	
	1.3	Concepts : Related to estimation	7
	1.4	Concepts : Related to testing of hypotnesis	14
	1.5	Other related concepts	17
II		<u>E.F.L. AND IT'S PROPERTIES</u>	
	2.1	Introduction	22
	2.2	Definitions	23
	2.3	Some properties of E.F.D.	33
	2.4	Relation between M.L.E. and $I_n(\theta)$	44
	2.5	Other properties of E.F.D.	48
	2.6	Illustrations	51
III		<u>CHARACTERIZATION OF ONE PARAMETER</u> <u>E.F.L. AND INFORMATION FUNCTIONS</u>	
	3.1	Introduction	62
	3.2	Characterization based on the moments and the cumulants	63

CHAPTER	SECTION	TITLE	PAGE
	3.3	Characterization by C.R.L.B. and M.L.R.	77
	3.4	Information functions	80
	3.5	Walker and Weber's result	83
	3.6	Illustrations	85
IV		<u>CURVATURE OF A FAMILY OF DISTRIBUTIONS</u>	
	4.1	Introduction	94
	4.2	Curvature and it's role in Statistics	94
	4.3	Curved E.F.D.	107
		REFERENCES	114
		BIBLIOGRAPHY	117