

CONTENT

CHAPTER	TITLE	PAGE NO.
I	Brief survey of Einstein-Cartan theory	
	1. Introduction	1
	2. The necessity of Einstein-Cartan theory	2
	3. Historical background of Einstein-Cartan theory	3
	4. The structure Equations of Einstein-Cartan theory	5
	5. Comparison with Einstein's theory	8
	6. Brief survey of our investigations	9
II	A conformally flat Electromagnetic mass model in Einstein-Cartan theory	
	1. Introduction	12
	2. Cartan equations of structure and the metric with curvature	13
	3. Energy Momentum tensor and the equations	15
	4. Solutions of the field equations	17
	5. The model solution (when $r \ll 1$)	19
	6. Properties of solution	21
III	Static fluid sphere in Einstein-Cartan theory	
	1. Introduction	24
	2. Field equations	25
	3. Solutions of the field equations	26
IV	Conformally flat charged perfect fluid distribution in Einstein-Cartan theory	
	1. Introduction	30
	2. Metric and the field equations	32
	3. Solutions of the field equations	35
	4. Discussion and properties of the solutions	37
V	References	39
