

## CONTENTS

<u>Chapter</u>		<u>Page</u>
I	PRECURSORY NOTIONS AND CONCEPTS	1 - 15
	1.1) Sectionwise reconnaissance	1
	1.2) Conventions	1
	1.3) The study of congruences	2
	1.4) Geometrical symmetries	6
	1.5) Evolution of stress-energy tensor for the relativistic magnetofluid	6
	1.6) Several aspects of stress-energy tensor for magnetofluid	9
II	CONSEQUENCES OF LOCAL CONSERVATION LAWS	16 - 35
	2.1) Prelude	16
	2.2) Field equations	17
	2.3) Differential relations	20
	2.4) Finite amplitude sound propagation equation	23
	2.5) Groups of motion	27
	2.6) Conformal motion	32
III	RELATIVISTIC MAGNETOFLUID AND SPHERICAL SYMMETRY	36 - 52
	3.1) Proem	36
	3.2) Spherically symmetric static models	37
	3.3) A class of spherically symmetric non-static models	46
	REFERENCES	53 - 56
	BIBLIOGRAPHY	

