

## C O N T E N T S

Page

Chapter-I

Introduction	(v)
Review of the previous work	1
Scope and object of the present work	67
References	77

Chapter-II

Experimental set up	82
References	103

Chapter-III

Radio frequency conductivity of some Polar dielectric liquids in five different non-polar solvents.	104
---	-----

Chapter-IV

Radio frequency conductivity of some opalescent binary liquid mixtures.	123
---	-----

Chapter-V

Radio frequency conductivity and its relationship with viscosity in case of polar dielectrics.	139
--	-----

(iv)

Page

Chapter-VI

- Activation energy for viscosity of polar dielectrics  
from radio frequency conductivity measurements. 151

Chapter-VII

- Radio frequency conductivity of polar liquid in  
transverse magnetic field. 161

Chapter-VIII

- Temporal variation of current in polar dielectrics 174  
Summary and conclusion 103