

# CONTENTS

		PAGES
<b>PREFACE</b>	Scope and Object of the Work	1-4
<b>CHAPTER I</b>	Summary of the Works Done	5-8
<b>CHAPTER II</b>	Introduction	9-48
<b>CHAPTER III</b>	Experimental	49-54
<b>CHAPTER IV</b>	Electrical Conductivity of Sodium Polystyrenesulfonate in Acetonitrile-Water Mixed Solvent Media: Experiment and Data Analysis Using the Manning Counterion Condensation Model and the Scaling Theory Approach	55-71
<b>CHAPTER V</b>	Effect of Salt on the Conductivity of Sodium Polystyrenesulfonate in Acetonitrile-Water Mixed Solvent Media	72-95
<b>CHAPTER VI</b>	Intrinsic Viscosities of Sodium Polystyrenesulfonate in Acetonitrile-Water Mixed Solvent Media Using the Isoionic Dilution Method	96-118
<b>CHAPTER VII</b>	Viscosity of Sodium Polystyrenesulfonate in Acetonitrile-Water Mixed Solvent Media in Presence of NaCl	119-128
<b>CHAPTER VIII</b>	Apparent Molar Volumes of Sodium Polystyrenesulfonate in Acetonitrile-Water Mixed Solvent Media	129-140
<b>CHAPTER IX</b>	Sodium Polystyrenesulfonate induced Aggregation Behaviour of Cetyltrimethylammonium Bromide in Acetonitrile-Water Mixed-Solvent Media: A Conductivity and Tensiometric Study	141-153
<b>CHAPTER X</b>	Concluding Remarks	154-155
<b>APPENDIX</b>	Electrical Conductances of Tetrabutylammonium Bromide, Sodium Tetraphenylborate, and Sodium Bromide in Acetonitrile- Water Mixtures at 308.15, 313.15, and 318.15K: Determination of Limiting Ionic Equivalent Conductivities	156-169
<b>PUBLICATIONS</b>	List of Papers Published	170
<b>ADDENDUM / CORRIGENDUM</b>	Addendum / Corrigendum in the Thesis	171-172