

CONTENTS

Chapter	Topic	Page No.
	<i>ACKNOWLEDGEMENTS</i>	
I	INTRODUCTION	1-28
II	THEORETICAL BACKGROUND and EXPERIMENTAL TECHNIQUES	29-76
III	OPTICAL MICROSCOPY, DSC AND X-RAY DIFFRACTION STUDIES ON BINARY MIXTURES OF PENTYLOXY CYNOBIPHENYL WITH THREE p-AZOXYBENZENES	77-102
IV	OPTICAL BIREFRINGENCE, DENSITY AND ELASTIC CONSTANTS OF BINARY MIXTURES OF PENTYLOXY CYNOBIPHENYL WITH THREE P-AZOXYBENZENES	103-139
V	DIELECTRIC STUDY IN NEMATIC AND INDUCED SMECTIC A PHASES IN BINARY MIXTURES OF PENTYLOXY CYNOBIPHENYL WITH THREE P-AZOXYBENZENES.	140-167
VI	OPTICAL MICROSCOPY, DSC, SPONTANEOUS POLARIZATION AND FREQUENCY DOMAIN DIELECTRIC SPECTROSCOPY STUDIES ON A FERROELECTRIC LIQUID CRYSTAL	168-185
VII	THE MOLECULAR AND CRYSTAL STRUCTURE OF A POLAR MESOGEN 4 - CYANOBI-PHENYL - 4'- HEXYLBI-PHENYL CARBOXYLATE	186-203
VIII	SUMMARY AND CONCLUSIONS	204-212
