

	PAGE
Coupling criteria and description of excitation energy in molecular crystals	41
Mixed molecular crystal systems	43
Triplet excitation migration, triplet- triplet annihilation and delayed fluorescence in mixed crystals ..	46
 CHAPTER II ON THE EVIDENCE OF A LOW-LYING	
FORBIDDEN STATE IN SOME POLYENES ..	54
Introduction	55
Experimental	58
Results	59
Discussion	80
 CHAPTER III THE ELECTRONIC SPECTRA OF SOME POLYENES	
WITH AROMATIC TERMINAL GROUPS	93
Introduction	94
Experimental	95
Results	97
Discussion	118

	PAGE	
CHAPTER IV DONOR - ACCEPTOR COMPLEXES OF SOME		
POLYIMES WITH ELECTRON ACCEPTORS	156	
Introduction 	157	
Experimental 	158	
Results 	158	
Discussion 	160	
 CHAPTER V TRIPLET - TRIPLET ANNIHILATION IN A		
"REAL" MIXED CRYSTAL : BIPHENYL GUEST-		
CARBAZOLE HOST SYSTEM ..		181
Introduction 	182	
Experimental 	184	
Results 	186	
Discussions 	191	
 REFERENCES 	 224	
 APPENDIX 	 238	
 VITA 	 241	