## LIST OF TABLES

S.No	TABLE#	TITLE	PAGE	
1.	Table 4.1	Comparison be	tween human expert, an expert system and a conventional computer	
	program		4	
2.	Table 5.1	18-character n	ming scheme95	
3.	Table 5.2	Sample of Que	stions, Rules, Rule sets and Actions in the Expert System125	<u>;</u> _
	126			
4.	Table 6.1	: A sample of in	uput file to 'Hilbert'	
5.	Table 6.2	Complex num	pers corresponding to amplitudes given in Table 6.1144	
6.	Table 6.3	: Sample Instar	taneous phases in degree for data given in Table 6.2145	
7.	Table 6.4	: Reflection str	ength for complexes given in Table 6.2 146	
8.	Table 6.5	Sample of Que	stions for manual interpretation 152	
9.	Table 6.6	Sample of grou	ps for answer choices for manual interpretation 152	
10.	Table 6.7	Sample of rule	s for manual interpretation 153-154	
11.	Table 6.8	Sample of rule	sets for manual interpretation 154	
12.	Table 6.9	Sample of acti	ons generated for manual interpretation 155-156	
13.	Table 6.1	0 Sample of qu	estions based on analytical plots 158-159	
14.	Table 6.1	1 Sample of gro	oups for answer choices based on analytical plots159	
15.	Table 6.1	2 Sample of rul	es based on analytical plots 159-161	
16.	Table 6.1	3 Sample of rul	esets based on analytical plots161	
17.	Table 6.1	4 Sample of ac	ions generated during analytical interpretation162-163	