Contents

	Acknowledgements	v
	Transliteration note	viii
	Foreword	ix
	Introduction	xi
Chapter I	Man and Measure	I
	I Historical Background	I
	2 Measuring and Dividing Dimensions	2
	3 The Organization of Space4 Proportion	3 5
	4 Proportion	3
Chapter II	Geometric Patterns in Islamic Design	7
	The Concept of the Repeat Unit	7
	The Square and the Root Two System of Proportion	8
	3 The Hexagon and the Root Three System of Proportion	50
	4 The Pentagon and the Golden Ratio	82
	5 Patterns Based on the Double Hexagon	98
	6 Artistic Creativity and the Geometric Method of	
	Design	114
Chapter III	Architecture	116
	I Tracing Islamic Methods to a Possible Origin	115
	2 Analyses of Ancient Egyptian Monuments	119
	3 Building According to the 'Divine Order of the	119
	Universe'	124
	4 Islamic Concepts in Architecture	125
	5 Planning	125
	<i>y</i>	5
Chapter IV	Arabic Calligraphy	129
Chapter V	The Circles of 'Arūd in Arabic Poetry	135
Chapter VI	Music in the Muslim World	137
01 . 1/11	A 1 CD	
Chapter VII	Analyses of Patterns in the Applied Arts	141
	Conclusion	153
	Bibliography	154
		-27