CONTENTS

	Acknowledgments	ix
	Abstracts and Keywords	xiii
	Introduction	1
Chapter 1.	Characteristics of the Islamic Civilization	7
	Islamic Characteristics of Scientific Trends	12
Chapter 2.	Qur'anic Experimental Method	25
	The Elements of the Scientific Experimental Method in the	
	Qur'an	25
	Human Reasoning (al-qiyās)	27
Chapter 3.	The Impact of Islamic Medicine on Modern Civilization and	
	Islamic Scientific Heritage of Medicine and Pharmacy	49
	A Brief Overview of the History of Medicine	51
	Medicine in the Prophetic Era	52
	Medicine in the Umayyad Era	53
	Medicine in the Abbasid Era	53
	Specialized Branches of Medicine	70
Chapter 4.	The Impact of Islamic Political Theory on	
	Modern Civilization	121
	The Advice of Ṭāhir ibn Ḥusayn	122



	Policy Vision of Ibn Zafar ("the Sicilian")	124
	About the Author of Consolation for the Ruler During	
	the Hostility of Subjects	125
	Brief history of Islamic Sicily	126
	The Art of Politics by Machiavelli (d. 1527)	137
	Points of Similarity	148
	Points of Contrast	149
	Conclusion	150
Chapter 5.	Classical Muslim Scholars' Contribution to the Fields of	
-	Astronomy, Geography, Chemistry, Physics, and Mechanical	
	Engineering ('Ilm al-Hiyal)	165
	Astronomy	165
	Islamic Astrological Achievements	166
	The Most Important Muslim Astronomers	
	and Their Efforts	169
	The Composition of the World	175
	Models of the Seven Planetary Movements	176
	Other Astronomical Works	176
	The Astronomical Observatories	186
	Astronomical Instruments	189
	Geography	195
	Muslim Scholars' Contributions to Alchemy or Chemistry	206
	Methodological Chemistry	208
	Chemical Laboratories	210
	Muslims and the Development of Physics	217
	The Qur'an and the Laws of Physics	218
	Muslims and the Development of Physics	219
	Mechanics ('Ilm al-Hiyal)	229
	Glossary	265
	About the Author	269
	Index	271