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Muslim Scientists To The World

# Contribution Of Muslim Scientists To The World

*Translated from the original Arabic  
by William Alexander Greenhill.  
Muslim scientists and scholars have  
contributed immensely to human*

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*knowledge especially in the period between 8th and 14th century CE.*

*However, their contributions have been largely ignored, forgotten or have gone un-acknowledged.*

*Encyclopaedia of Islamic Scholars and Scientists, perhaps for the first*

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*time, in a published form, brings together such a comprehensive galaxy of illustrious Muslims who have contributed greatly to the development of scholarship across a diverse field of subjects ranging from Arts and Humanities, Philosophy and Religion,*

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*Sciences ? Applied and Pure,  
Literature and Linguistics,  
Jurisprudence and Economy, Poetry  
and Prose, Medicine and Surgery,  
Astronomy and Geo-Sciences,  
Engineering, Politics, and so on. The  
entries, numbering about a thousand,*

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*are written by some of the foremost scholars on Islam, and provide immense amount of bibliographical material, which in itself is so scarce. It is hoped that the Encyclopaedia of Islamic Scholars and Scientists will fill a great need felt by the scholars,*

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*readers, researchers, and students for a long time.*

*Lately, Islam has been enduring considerable pressure and criticism for its violent nature and its involvement with anti-social activities, such as terrorism, assassinations,*

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*suicide bombings, etc. Some evidence of the growing awareness of Islam and its efforts of peaceful co-existence has come to light in the form of increased interest in reading history and about the past events. This awareness is not sufficient. The*

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*authors in their book, Globalization of Knowledge, have endeavoured to dispel this undue criticism. In this treatise, the authors have undertaken to illustrate Islam and its efforts for creating and maintaining a peaceful and harmonious global village. They*



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*have also brought to the attention of the readers contributions of the Islamic Civilization to human knowledge, particularly the preservation and further advancements in philosophy, sciences, astronomy and other social*

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*disciplines. The book is an easy reading and full of information.*

*Readers can learn vicariously from the Islamic contributions to human knowledge.*

*The Rise and Fall of Muslim Civilization*

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*Ryan's Retina E-Book*

*Projecting the Contributions of*

*Muslim Scientists*

*Muslim Contribution to Geography*

*The Book of Ingenious Devices /*

*Kitáb al-ʿiyal*

*Including Entries Prepared by a*

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## *Number of Leading Orientalists and Modern Islamic Scholars*

Islam Is Basically A Scientific Religion. It Binds Followers To Master, The Contemporary Sciences And All The Disciplines Of Knowledge. Therefore, Naturally, The Muslims In All Ages In Early Centuries, In Particular- Have

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Contributed A Lot A Promotion And Development Of Science And Technology In Their Times. This Study Discusses Muslim Scientist S Great Contribution To Scientific Inventions And New Researches. It Covers The Progress Of Science Under Islam Over The Centuries And Examines The Future Prospects Also. And It Makes

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It A Worthwhile Work.

skilled in geometry, ingenious devices (lives), music and astronomy. According to Ibn al-Nadīm and Ibn Khallikān their weakest subject was astronomy, but this seems to conflict with the opinions of Ibn Yunus and al-Bīrūnī, both good judges, who spoke highly of the accuracy of the

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Banu Musa's astronomical observations. Mu'ammad, who was the most influential of the brothers, specialised in geometry and astronomy, and excelled Al'ammad in all the sciences except in the construction of ingenious devices. Al-I: lasan was a brilliant geometrician with a retentive memory and great powers of deduction. A

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rival onee tried to discredit him in front of al-Ma'mun hy saying that al- l: lasan had read only six of the thirteen books of Euclid's Elements. Al-l: lasan replied by saying that it was unnecessary for him to read the remainder because he could arrive at the answers to any of Euclid's problem s by deduction. Al-Ma'mun



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acknowledged al-l: lasan 's skill, but did not excuse him, saying: "laziness has prevented you from 2 reading the whole of it-it is to geometry as the letters a, b, t, 111 are to speech and writing. " (H. 264). Al-l: lasan is rarely mentioned by name elsewhere in the sources and may have preferred to devote his time to

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scholarship, whereas his brothers were involved in a variety of undertakings. At the time of their entry into the House of Wisdom the Banu Musil were poor and needy (H.

The history of Islamic Science has not received the recognition it deserves.

Although reverence is accorded to the

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memory of such great figures of Islamic history as Ar-Razi (Rhazes), Jabir-ibn-Hayyan (Geber) and Omar Khyaam. The present treatise is an attempt to construct an outline of the progress of Islamic Science from the days of the prophet Muhammad to the end of fifteenth century. Spread in fifteen chapters the book traces

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the growth and development of Islamic Science during the hay days of Islamic glory. It throws succinct and incisive light on various aspects of Islamic Science, namely, mathematics, mechanics, astronomy, astrology, music, alchemy, chemistry, medicine and geography. In short the approach is objective, analysis

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systematic, treatment logical and the style  
lucid

Kitáb al-Hiyal. By The Banú (sons of)  
Músà bin Shákir

Crime of Pension

Islamic Science and the Making of the  
European Renaissance

Islam and Its Contributions

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The Enduring Legacy of Muslim Scientists,  
Thinkers, and Artists

A Brief Survey of Muslim Contribution to  
Science and Culture

The brilliant  
contributions of Islam  
to science, art, and

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culture, are a timeless and precious heritage, which should be historically preserved for future generations. The great achievements of Muslim scholars are

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rarely if at all acknowledged in formal education, and today their identity, origins and impact remain largely obscure. This collection of papers



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aims to give readers a brief introduction to the intellectual history of Muslims and the contributions that eminent Muslim scholars have made in certain

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specific fields of  
knowledge including  
basic and applied  
physical and biological  
sciences, medicine,  
legal and political  
theories and practices,

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economic and financial concepts, models, and institutions, etc.

The Arabs and particularly the Muslims were greatly interested in almost all the fields

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of learning. This is evident from the remarkable contribution they made in every field of knowledge. Every civilization and culture has its golden age,

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likewise for the Arab Muslims the middle period i.e., 8\* to 13\* century was the golden period as it was in that period that they made splendid and remarkable

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achievements in almost all the major branches of learning especially life and exact sciences. They not only preserved and assimilated the intellectual legacy of

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the then civilized world, but also made original contributions in all branches of studies in arts, humanities and natural sciences. In the light

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of these Quranic  
injunctions regarding  
seeking of knowledge the  
Muslims were shrewd in  
making observations in  
natural phenomena  
created by Almighty



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Allah. Every other verse of the Quran directs the Muslims to seek knowledge by contemplating and observing the nature, the world around us and

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the creatures and also to search for the reasons and utility of all the creations. Even the traditions of Prophet Muhammad (s.a.w.) direct the

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Muslims to seek knowledge. Inspired by these teachings of Islam, the Arab Muslims made vast and original contributions by making researches and through

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their efforts and compositions. A number of Muslim scholars performed marvellous jobs either independently or under the patronage of their

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rulers. They started with the translations of scientific works of earlier civilizations like those of Greeks, Nabaeteans, and Indians etc. It was,

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This is a study of science in Muslim society from its rise in the 8th century to the efforts of 19th-century Muslim thinkers and reformers to regain the

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lost ethos that had given birth to the rich scientific heritage of earlier Muslim civilization. The volume is organized in four parts; the rise of

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science in Muslim  
society in its  
historical setting of  
political and  
intellectual expansion;  
the Muslim creative  
achievement and original



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discoveries; proponents and opponents of science in a religiously oriented society; and finally the complex factors that account for the end of the 500-year

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Muslim renaissance. The book brings together and treats in depth, using primary and secondary sources in Arabic, Turkish and European languages, subjects that

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are lightly and uncritically brushed over in non-specialized literature, such as the question of what can be considered to be purely original scientific

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advancement in Muslim civilization over and above what was inherited from the Greco-Syriac and Indian traditions; what was the place of science in a religious

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society; and the question of the curious demise of the Muslim scientific renaissance after centuries of creativity. The book also interprets the

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history of the rise,  
achievement and decline  
of scientific study in  
light of the religious  
temper and of the  
political and socio-  
economic vicissitudes

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across Islamdom for over a millennium and integrates the Muslim legacy with the history of Latin/European accomplishments. It sets the stage for the next

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momentous transmission of science: from the West back to the Arabic-speaking world of Islam, from the last half of the 19th century to the early 21st century, the



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subject of a second  
volume.

Medieval Islamic  
Medicine

The Rise of Science in  
Islam and the West  
Islam and Scientific

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Enterprise

Early Muslim Scientists

Contributions of

Medieval Arab\_muslim

Scientists to Botany and

Agriculture

An Illustrated

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Introduction

***Many scientists have come to realize that science and religion can nurture each other. One example was the flowering of science in***

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***the first centuries of Islam. For Dr. Imad-ad-Dean Ahmad, a Muslim and an astronomer, studying the universe is an expression of faith. Scientists and non-***

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***scientists should appreciate the insights in this passionate and lucid book. Dr. Ahmad's book has been widely acclaimed for its insights into the***

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***Islamic approach to science and the spiritual foundations of Western scientists such as Galileo, Newton and Einstein. A Palestinian trained at Harvard, he***

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***offers a unique  
perspective of the role  
of religion in science.  
The undisputed gold  
standard text in the  
field, Ryan's Retina is  
your award-winning***

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***choice for the most  
current, authoritative  
information on new  
technologies, surgical  
approaches, scientific  
advances and diagnostic  
and therapeutic options***



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***for retinal diseases and disorders. Packed with timely updates throughout, new illustrations, and a dedicated team of editors who extend Dr.***

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***Ryan's legacy in retina,  
this outstanding 6th  
Edition is a must-have  
reference for retinal  
specialists,  
ophthalmologists, and  
fellows in training.***

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***Offers the most  
comprehensive content  
available on retina,  
balancing the latest  
scientific research and  
clinical correlations,  
covering everything you***

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***need to know on retinal  
diagnosis, treatment,  
development, structure,  
function, and  
pathophysiology.***

***Provides a truly global  
perspective from five***

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***highly esteemed section  
editors and more than  
350 other world  
authorities from across  
Europe, Asia,  
Australasia, and the  
Americas. Bullets***

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***Includes new chapters on  
widefield imaging,  
intraoperative OCT  
imaging, medical  
management of diabetes  
mellitus and age-related  
macular degeneration,***

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***and senile  
retinoschisis. Includes  
more than 1,150 brand-  
new illustrations,  
scans, and photographs  
throughout. Covers the  
explosion of new imaging***

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***options across optical  
coherence tomography  
(OCT), fundus imaging,  
and autofluorescence  
imaging, including a  
greatly expanded OCT  
imaging chapter that***



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***features crucial  
information on OCT-  
Angiography (OCT-A).  
Presents new  
pharmacotherapy data and  
the latest approaches in  
anti-VEGF therapy for***

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***age-related macular  
degeneration, diabetic  
retinopathy, and venous  
occlusive disease.  
Contains thorough  
content updates in every  
area of retina,***

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***including advanced  
imaging technologies,  
gene therapy,  
inflammation and immune  
responses, white dot  
syndromes, epigenetic  
mechanisms,***

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***transplantation  
frontiers to improve  
retinal function,  
macular hole, myopic eye  
disease, ocular trauma,  
drug delivery to the  
posterior segment,***

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***advances in macular  
surgery, vitrectomy and  
complex retinal  
detachment, tumors, and  
retinal genetics and  
biology.***

***The medical tradition***

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***that developed in the lands of Islam during the medieval period (c. 650-1500) has, like few others, influenced the fates and fortunes of countless human beings.***

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***It is the story of  
contact and cultural  
exchange across  
countries and creeds,  
affecting caliphs,  
kings, courtiers,  
courtesans, and the***

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***common crowd. In addition to being fascinating in its own right, it formed the roots from which modern Western medicine arose. Contrary to the***



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***stereotypical picture,  
medieval Islamic  
medicine was not simply  
a conduit for Greek  
ideas, but was a locus  
for innovation and  
change. The book is***

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***organised around five  
topics: the emergence of  
medieval Islamic  
medicine and its intense  
cross-pollination with  
other cultures, the  
theoretical medical***

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***framework, the function of physicians within the larger society, the medical care as seen through preserved case histories, and the role of magic and devout***

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***religious invocations in  
scholarly as well as  
everyday medicine. A  
concluding chapter on  
the 'afterlife' concerns  
the impact of medieval  
Islamic medicine upon***

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***the European medical  
tradition and its  
continued practice  
today. The aim of this  
book is not to compress  
the entire history of  
medieval Islamic***

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*medicine into a single  
small volume. Rather, it  
presents an overview,  
highlighted with  
particular examples.  
The Enduring Legacy of  
Muslim Civilization*

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***History and Philosophy  
of Muslim Contribution  
to Science and  
Technology  
Contributions of Muslim  
Scientists During the  
13th and 14th Centuries***

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***Hijri in the Indo-  
Pakistan Sub-continent  
History of Islamic  
Economic Thought  
the incoherence of the  
incoherencie  
Muslim Scholars' Views***



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## ***on Education***

This unique book highlights the contributions made by Muslim scholars to economic thought throughout history, a topic that has received relatively little attention in mainstream economics. Abdul Azim Islahi discusses various ways in which

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Muslim ideas

Short biography and achievements of the scientists.

A compelling study of the little known contributions of Islam's cultural, artistic, and scientific accomplishments to Western civilization looks not only at the historic achievements of the

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Muslim world and the role of inspired leaders who encouraged intellectual inquiry, championed tolerance, and sponsored artistic and literary endeavors, but also at the ancient envy that fuels today's conflicts.

Reprint.

Contributions of Muslim Scholars to

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Economic Thought and Analysis

Lost History

From Shared Heritage to Parting of  
The Ways, 8th to 19th Centuries

Muslim Contributions to World

Civilization

Muslim Scientists, Mathematicians,

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and Astronomers Before European  
Renaissance, 700-1500 C.E.

Contribution of Muslim Scientists to  
Medicine and Related Sciences  
The Muslim Contribution to  
Mathematics  
Routledge

A. Zahoor presents biographical  
information about Muslim scientists,

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mathematicians, and astronomers who made multi-disciplinary contributions to science. These Muslims contributed to mathematics, medicine, technology, sociology, and philosophy. Zahoor includes a timeline of these Muslims who lived before the 15th century.

In Europe, the process of learning and

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scientific activities began in the twelfth century AD after the Arabic books were translated into Latin language. In those days, Europe was illiterate and backward, and the Islamic world was highly educated and advanced. Between 200 C.E. and 1200 C.E., Europe had produced only a handful of scientists. Whereas until 1200 C.E., in

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just six hundred years, Islam had produced thousands of scientists and millions of books. In the development of science, Islam occupies the intermediary stage between ancient and modern science. Some people believe that no significant scientific contributions were made in the dark age. However, Islam has made



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noteworthy contributions in the dark age. This booklet gives a brief account of the life and achievements of some selected scientists who represent more than twenty disciplines of science and technology, such as physics, chemistry, zoology, biology, sociology, history, astronomy, geography, literature,

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calligraphy, medicine, mathematics and  
mechanical engineer

Medieval Muslim Thinkers and Scientists

1001 Inventions

The New Atlantis

Ninth to Fourteenth Century

Averroes' Tahāfut al-Tahāfut

Islam's Contribution to Science

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***"Imagine it is the seventh century. As most of Europe continues its descent into a long period of intellectually dormancy, a quiet yet powerful academic revolution is erupting in another corner of the world. Over the next***

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***centuries, the geniuses of Muslim society will thrust the boundaries of knowledge forward to such a degree that their innovations still shape civilizations to this day. The staggering achievements of these men and women***

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***influenced the development of modern mathematics, science, engineering, and medicine. 1001 Inventions: The Enduring Legacy of Muslim Civilization sheds new light on this golden era that was once lost to so many, and***

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***celebrates the heritage that we all share"--P. [4] of cover. The first revelation of the Quran inspires Muslims to acquire knowledge. "Recite in the name of God who created men from a clinging substance, He taught (the use***

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***of) the pen taught man that which he knew not." (96:3-5). Why did the dominance of Muslim scientists, virtually in every field of knowledge for ten centuries, suddenly end in decline? What went wrong? Why are most of the Muslim***

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***nations backward, unstable, and mostly poor? Why is there so little knowledge about the invaluable contributions made by Muslim scientists during the medieval years? Can we motivate, inspire, and mentor today's***



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***youth to follow in the footsteps of the early Muslim Noble laureates in science? If so, how? For decades, Dr. Basheer Ahmed has been seeking answers to these questions, doing research, giving lectures, organizing***

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***seminars, and listening to scientists, professors, and religious scholars alike. His goal is to draw the attention of the Muslim community to this important issue, and to encourage youth to think creatively and take up careers***

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***in science, technology, and mathematics (STEM). Within these pages, Dr. Ahmed and contributing authors offer invaluable insight into the past, present, and future hope of Muslim contributions in STEM. This book is an***

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***important work at a critical time in Islamic history.***

***This book investigates the transmission of knowledge in the Arab and Islamic world, with particular attention to the translation of material from Greek, Persian, and***

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***Sanskrit into Arabic, and then  
from Arabic into Latin in  
medieval Western Europe.  
While most modern scholarly  
works have addressed  
contributions of Muslim  
scholars to the modern  
development of translation,***

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***Labeeb Ahmed Bsoul bases his study on Arabic classical literature and its impact upon modern translation. He focuses on the contributions made by prominent classical Christian and Muslim scholars, showcasing how***

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***their works and contributions  
to the field of knowledge are  
still relevant today.***

***Science in Medieval Islam***

***Globalization of Knowledge***

***A Treatise on the Small-pox  
and Measles***

***Early Muslims and Their***

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***Contribution to Science  
Translation Movement and  
Acculturation in the Medieval  
Islamic World  
Contributions of Early Muslim  
Scientists to Engineering  
Sciences and Related Studies***  
From Musa al-Khwarizmi who



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developed algebra in 9th century Baghdad to al-Jazari, a 13th-century Turkish engineer whose achievements include the crank, the camshaft and the reciprocating piston, Science and Islam tells the story of one of

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history's most misunderstood yet rich and fertile periods in science: the extraordinary Islamic scientific revolution between 700 and 1400 CE.

What do we mean, when we say Islam? Who are the Muslims? Islam

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is a way that over 1.3 billion people in the world\* have adopted, to reach a particular destiny: the peace here and a peaceful hereafter. The term Islam has the word S-L-M at its roots, signifying peace and submission.

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Thus a Muslim attains peace and serenity physically, psychologically, and spiritually by submitting to the will of God instead of one's own impulse and worldly compulsions. It is this concept of submission only to the

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God that frees one from internal and external conflicts and chaos. Islam means submission to the will of One God - the God referred in Arabic as Allah, the word originated by Arabic words Al (the) & Ilah (God), thus Allah The God.

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The peace that is supposed to flow from this submission, establishes a calm in one's self and one's surroundings. The word Muslim means the one who submits to the will of Allah. A Muslim submits to Allah, as the Creator and Sustainer

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of the universe, the God of Mercy, who sent the prophets such as Noah, Abraham, Moses, and Jesus (p.b.u.t.'), earlier and prophet Muhammad (S) as the last messenger. By acknowledging and professing the Oneness of God and

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the prophet-hood of prophet Muhammad (S) without any compulsion, one basically becomes a Muslim. Being, faithful however, depends on the individual efforts to improve oneself; it is the matter of spiritual



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and intellectual advancement. A Muslim is supposed to fulfill the purpose of his/her creation as a human being by following Islam. Islam is a comprehensive system that leads Muslims to a completely fulfilled life as human beings, and

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thus leads them to attain a peaceful destiny. For example, as Islam is concerned with individual as well as collective well being of human societies, therefore, among other things, learning and seeking knowledge is especially

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emphasized in Islam, because it increases individual and collective awareness, comprehension, and faith. As a process of spiritual advancement, and to stay healthy physically, and mentally, a Muslim abides by some sophisticated

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dietary, hygienic, and precautionary practices, as well as some moral principles, individually and socially. It is quite amazing, however, that in spite of ample information available on the true essence of Islam, how media not

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only avoids mentioning constructive contributions of Muslims, but often chooses certain individuals to present its opinion about Islam and Muslims in such a contradictory manner that is not only alien, but demeaning to Islam

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and Muslims. This fulfills no other purpose except to further misinform, and mislead the audiences, and to introduce a misunderstanding that already exists, in a highly dramatic way. By widening the gap among the

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people of world they may actually be doing a disservice to the efforts of a collective human progress of modern societies. It is not a hidden fact that the modern advances in science and technology were to a large degree a contribution of

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Muslim scholars and scientists. It would be an unfortunate state of affair, where the scholastic energies of Muslim minds go unutilized in part due to the propagated biases. It would be helpful on the other hand if the



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open-minded people in the media invite Muslim scholars to establish a constructive dialogue for the sake of positive human progress, and peace. They could join hands with those scholars, who benefit from their search of Islamic

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sciences and literature, as it continues to astonish and guide contemporary intellectuals, and the researchers of modern times: It ... seemed impossible to explain how a text produced at the time of the Qur'an could have

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The rise and fall of the Islamic scientific tradition, and the relationship of Islamic science to European science during the Renaissance. The Islamic scientific tradition has been described many times in accounts of Islamic

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civilization and general histories of science, with most authors tracing its beginnings to the appropriation of ideas from other ancient civilizations—the Greeks in particular. In this thought-provoking and original book,

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George Saliba argues that, contrary to the generally accepted view, the foundations of Islamic scientific thought were laid well before Greek sources were formally translated into Arabic in the ninth century. Drawing on an

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account by the tenth-century intellectual historian Ibn al-Naidm that is ignored by most modern scholars, Saliba suggests that early translations from mainly Persian and Greek sources outlining elementary scientific

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ideas for the use of government departments were the impetus for the development of the Islamic scientific tradition. He argues further that there was an organic relationship between the Islamic scientific thought that developed

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in the later centuries and the science that came into being in Europe during the Renaissance. Saliba outlines the conventional accounts of Islamic science, then discusses their shortcomings and proposes an alternate narrative.



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Using astronomy as a template for tracing the progress of science in Islamic civilization, Saliba demonstrates the originality of Islamic scientific thought. He details the innovations (including new mathematical tools) made by

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the Islamic astronomers from the thirteenth to sixteenth centuries, and offers evidence that Copernicus could have known of and drawn on their work. Rather than viewing the rise and fall of Islamic science from the often-

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narrated perspectives of politics and religion, Saliba focuses on the scientific production itself and the complex social, economic, and intellectual conditions that made it possible.

The Muslim Contribution to

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Mathematics

Art of the Islamic World

Signs in the Heavens

A Resource for Educators

Science & Islam

Contribution of Muslim Scientists  
to Medicine and Related Sciences

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Did you know the early Islamic world bred scientists and scholars who made significant contributions to the field of science and technology? This book will introduce some of the most important names of the

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time. Read this book to open your mind into a different definition of Islam. Grow your knowledge with one topic at a time. Include this book in your collection.

Family guide, Dazzling details in

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folded front cover.

During the Golden Age of Islam (seventh through seventeenth centuries A.D.), Muslim philosophers and poets, artists and scientists, princes and laborers created a unique culture

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that has influenced societies on every continent. This book offers a fully illustrated, highly accessible introduction to an important aspect of that culture—the scientific achievements of medieval Islam.



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Howard Turner opens with a historical overview of the spread of Islamic civilization from the Arabian peninsula eastward to India and westward across northern Africa into Spain. He describes how a passion for

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knowledge led the Muslims during their centuries of empire-building to assimilate and expand the scientific knowledge of older cultures, including those of Greece, India, and China. He explores medieval Islamic

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accomplishments in cosmology, mathematics, astronomy, astrology, geography, medicine, natural sciences, alchemy, and optics. He also indicates the ways in which Muslim scientific achievement influenced the

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advance of science in the Western world from the Renaissance to the modern era. This survey of historic Muslim scientific achievements offers students and general readers a window into one of the world's

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great cultures, one which is experiencing a remarkable resurgence as a religious, political, and social force in our own time.

Scientists and Scholars of the Early Islamic World - Islamic

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Empire History Book 3rd Grade |  
Children's History

A Muslim Astronomer's  
Perspective on Religion and  
Science

Muslim Contribution to Science  
Their Contributions to Natural

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Science

The Life of Ibn Sina

A History

This book, first published in 1977, discusses the Muslim contribution to mathematics during the golden age of Muslim

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learning from the seventh to the thirteenth century. It was during this period that Muslim culture exerted powerful economic, political and religious influence over a large part of the civilised world. The work of the Muslim



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scholars was by no means limited to religion, business and government. They researched and extended the theoretical and applied science of the Greeks and Romans of an earlier era in ways that preserved and

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strengthened man's knowledge in these important fields.

Although the main object of this book is to trace the history of the Muslim contribution to mathematics during the European Dark Ages, some

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effort is made to explain the progress of mathematical thought and its effects upon present day culture. Certain Muslim mathematicians are mentioned because of the important nature of their ideas in

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the evolution of mathematical thinking during this earlier era. Muslim mathematicians invented the present arithmetical decimal system and the fundamental operations connected with it ; addition, subtraction,

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multiplication, division, raising to a power, and extracting the square root and the cubic root.

They also introduced the  zero  symbol to Western culture which simplified considerably the entire arithmetical system and its

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fundamental operations; it is no exaggeration if it is said that this specific invention marks the turning point in the development of mathematics into a science. This book is one of the many Islamic publications distributed

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by Mustafa Organization  
throughout the world in different  
languages with the aim of  
conveying the message of Islam  
to the people of the world.  
Mustafa Organization is a  
registered Organization that

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operates and is sustained through collaborative efforts of volunteers in many countries around the world, and it welcomes your involvement and support. Its objectives are numerous, yet its main goal is to



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spread the truth about the Islamic faith in general and the Shi`a School of Thought in particular due to the latter being misrepresented, misunderstood and its tenets often assaulted by many ignorant folks, Muslims

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and non-Muslims. Organization's purpose is to facilitate the dissemination of knowledge through a global medium, the Internet, to locations where such resources are not commonly or easily accessible or are

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resented, resisted and fought!  
Encyclopaedia of Islamic  
Scholars and Scientists  
Muslim Scientists in the Dark  
Age