

Science And Civilisation In China Volume 5 Chemistry And Chemical Technology Part 6 Military Technology Missiles And Sieges

Science and Civilisation in ChinaThe Shorter Science and Civilisation in China:The Shorter Science and Civilisation in China: Vol. 1 and 2 of the major seriesScience and Civilisation in China: Volume 7, The Social Background, Part 2, General Conclusions and ReflectionsScience and Civilisation in ChinaScience and Civilisation in China: Volume 7, The Social Background, Part 1, Language and Logic in Traditional ChinaAstronomy and Mathematics in Ancient ChinaScience and Civilisation in China: Volume 6, Biology and Biological Technology, Part 3, Agro-Industries and ForestryScience and Civilisation in China: Volume 6, Biology and Biological Technology, Part 5, Fermentations and Food ScienceScience and Civilisation in China: Volume 5, Chemistry and Chemical Technology, Part 4, Spagyric Discovery and Invention: Apparatus, Theories and GiftsThe Grand TitrationBomb, Book and CompassThe Man Who Loved ChinaThe Study of ChangeHeavenly ClockworkThe Genius of ChinaScience and Civilisation in China: Volume 5, Chemistry and Chemical Technology, Part 7, Military Technology: The Gunpowder EpicLi, Qi and ShuScience and Civilisation in China: Volume 6, Biology and Biological Technology, Part 2, AgricultureThe Shorter Science and Civilisation in ChinaScience and Civilisation in China: Volume 3, Mathematics and the Sciences

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Science and Civilisation in China

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First published in 1969. The historical civilization of China is, with the Indian and European-Semitic, one of the three greatest in the world, yet only relatively recently has any enquiry been begun into its achievements in science and technology. Between the first and fifteenth centuries the Chinese were generally far in advance of Europe and it was not until the scientific revolution of the Renaissance that Europe drew ahead. Throughout those fifteen centuries, and ever since, the West has been profoundly affected by the discoveries and invention emanating from China and East Asia. In this series of essays and lectures, Joseph Needham explores the mystery of China's early lead and Europe's later overtaking.

The Shorter Science and Civilisation in China:

As Dr Needham's immense undertaking gathers momentum it has been found necessary to subdivide volumes into parts, each to be bound and published separately. The first part of Volume 4, already published, deals with the physical sciences; the second with the diverse applications of physics in the many branches of mechanical engineering; and the third will deal with civil and hydraulic engineering and nautical technology. With this part of Volume 4, then, we come to the application by the Chinese of physical principles in the control of forces and in the use of power; we cross the frontier separating tools from the machine. We have already noticed that the ancient Chinese concept of chhi (somewhat similar

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to the pneuma of the Greeks) asserted itself prominently in acoustics; but we discover here that the Chinese tendency to think pneumatically was also responsible for a whole range of brilliant technological achievements, for example, the double-acting piston-bellows, the rotary winnowing-fan, and the water-powered metallurgical blowing-machine (ancestor of the steam-engine); as well as for some extraordinary insights and predictions in aeronautics.

The Shorter Science and Civilisation in China: Vol. 1 and 2 of the major series

Science and Civilisation in China Volume V Part 6 is the first of the three parts dealing with the arts of war in ancient and medieval China. (Part 7--on gunpowder and all aspects of explosive weapons--has already been published, while Part 8--on cavalry techniques and signaling--is still in preparation.) The present volume opens with an introduction on Chinese attitudes to warfare in general. Four major sections follow: on the making and use of simple bows; on the crossbow, the standard weapon of the Han armies, and its introduction to the Western world; on the pre-gunpowder forms of artillery, including the invention of the trebuchet; and on the art of siege warfare in which the Mohists were particularly interested. There is a good deal of material on siege-warfare available, and this final section is a substantial one, covering all aspects in detail.

Science and Civilisation in China: Volume 7, The Social Background, Part 2, General Conclusions and Reflections

Describes the introduction and development of chemistry in China in the late 19th and early 20th century.

Science and Civilisation in China

This book looks into the increasing conflict between the demand of economic growth and the already fragile ecological system condition in China. The prolonged urbanization process has escalated the erosion of natural environments and is increasing energy consumption. China's role as a "world plant" is also demanding more and more resource supply as well as energy consumption. This book argues that to correctly respond to these emerging issues, apart from upgrading industry and improves environmental protection techniques, China needs to establish an "ecological civilization" that provides an ideological basis for the construction of a green low-carbon model of economic growth.

Science and Civilisation in China: Volume 7, The Social Background, Part 1, Language and Logic in Traditional China

Astronomy and Mathematics in Ancient China

Capitalist globalisation since the 1980s has produced immense benefits in terms of technical progress, poverty reduction and welfare improvement. However, it has been accompanied by profound contradictions, including ecological destruction, global warming, inequality, concentration of business power, and financial instability. Regulation of global political economy in the interests of the majority of the world's population is essential if the human species is to avoid a Darwinian catastrophe. This book explores China's rich history of regulating the market in the interests of the mass of the population. For over two thousand years the Chinese bureaucracy has sought pragmatically to find a Way in which to integrate the 'invisible hand' of market forces with the 'visible hand' of ethically guided government regulation. Instead of seeking confrontation with China, citizens and politicians in the West need to deepen their understanding of the contribution that China can make to globally sustainable development in the decades and centuries ahead.

Science and Civilisation in China: Volume 6, Biology and Biological Technology, Part 3, Agro-Industries and Forestry

The only history of Chinese mining in English. Illustrated by photographs from

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Science and Civilisation in China: Volume 6, Biology and Biological Technology, Part 5, Fermentations and Food Science

For contents, see Author Catalog.

Science and Civilisation in China: Volume 5, Chemistry and Chemical Technology, Part 4, Spagyric Discovery and Invention: Apparatus, Theories and Gifts

Fascinating introduction to traditional Chinese concepts of li, qi, shu, yin, yang, wuxing, and yijing. Other topics covered: Chinese mathematics, astronomy and astrology, alchemy, magic, elixirs, and the search for immortality.

The Grand Titration

Joseph Needham's Science and Civilisation in China is a monumental piece of scholarship which breaks new ground in presenting to the Western reader a detailed and coherent account of the development of science, technology and medicine in China from the earliest times until the advent of the Jesuits and the

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beginnings of modern science in the late seventeenth century. It is a vast work, necessarily more suited to the scholar and research worker than the general reader. This paperback version, abridged and re-written by Colin Ronan, makes this extremely important study accessible to a wider public. The present book covers the material treated in volumes I and II of Dr Needham's original work. The reader is introduced to the country of China, its history, geography and language, and an account is given of how scientific knowledge travelled between China and Europe. The major part of the book is then devoted to the history of scientific thought in China itself. Beginning with ancient times, it describes the milieu in which arose the schools of the Confucians, Taoists, Mohists, Logicians and Legalists. We are thus brought on to the fundamental ideas which dominated scientific thinking in the Chinese Middle Ages, to the doctrines of the Two Forces (Yin and Yang) and the Five Elements (wu hsing), to the impact of the sceptical tradition and Buddhist and Neo-Confucian thought.--Publisher description.

Bomb, Book and Compass

This Key Concepts pivot examines the fundamental Chinese ideas of 'Civilization' and 'culture', considering their extensive influence both over Chinese society and East Asian societies. The pivot analyses the traditional connotations of those two concepts and their evolution in the Sino-Western exchanges as well as their renewed interpretation and application by contemporary Chinese scholars. It

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analyses how the years 1840-1900 which mark a period of major transition in China challenged these concepts, and highlights how the pursuit of innovation and international perspective gave birth to new values and paradigm shifts, and culminated in the May Fourth New Culture Movement. Considering the underlying humanistic ideas in the key concepts of traditional Chinese civilisation and culture, this pivot contributes to this series of Chinese Key Concept by offering a unique analysis of the conceptual evolutions brought about by the change of values in 21st century China.

The Man Who Loved China

A section of Volume IV, part 1 and a section of Volume IV, part 3 of the major series:

The Study of Change

Part one of the fifth volume of Joseph Needham's great enterprise is written by one of the project's collaborators. Professor Tsien Tsuen-Hsuei, working in regular consultation with Dr Needham, has written the most comprehensive account of every aspect of paper and printing in China to be published in the West. From a close study of the vast mass of source material, Professor Tsien brings order and

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illumination to an area of technology which has been of profound importance in the spread of civilisation. The main body of the book is a detailed study of the invention, technology and aesthetic development of printing in China. From the growth and ultimate refinements of early woodcut printing to the spread of printing from movable type and the development of book-binding, Professor Tsien carries the story forward to the beginning of the nineteenth century when 'more printed pages existed in Chinese than in all other languages put together'.

Heavenly Clockwork

In sumptuous and illuminating detail, Simon Winchester, the bestselling author of *The Professor and the Madman* ("Elegant and scrupulous"—*New York Times Book Review*) and *Krakatoa* ("A mesmerizing page-turner"—*Time*) brings to life the extraordinary story of Joseph Needham, the brilliant Cambridge scientist who unlocked the most closely held secrets of China, long the world's most technologically advanced country. No cloistered don, this tall, married Englishman was a freethinking intellectual, who practiced nudism and was devoted to a quirky brand of folk dancing. In 1937, while working as a biochemist at Cambridge University, he instantly fell in love with a visiting Chinese student, with whom he began a lifelong affair. He soon became fascinated with China, and his mistress swiftly persuaded the ever-enthusiastic Needham to travel to her home country, where he embarked on a series of extraordinary expeditions to the farthest

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frontiers of this ancient empire. He searched everywhere for evidence to bolster his conviction that the Chinese were responsible for hundreds of mankind's most familiar innovations—including printing, the compass, explosives, suspension bridges, even toilet paper—often centuries before the rest of the world. His thrilling and dangerous journeys, vividly recreated by Winchester, took him across war-torn China to far-flung outposts, consolidating his deep admiration for the Chinese people. After the war, Needham was determined to tell the world what he had discovered, and began writing his majestic *Science and Civilisation in China*, describing the country's long and astonishing history of invention and technology. By the time he died, he had produced, essentially single-handedly, seventeen immense volumes, marking him as the greatest one-man encyclopedist ever. Both epic and intimate, *The Man Who Loved China* tells the sweeping story of China through Needham's remarkable life. Here is an unforgettable tale of what makes men, nations, and, indeed, mankind itself great—related by one of the world's inimitable storytellers.

The Genius of China

Science and Civilisation in China: Volume 5, Chemistry and Chemical Technology, Part 7, Military Technology: The

Gunpowder Epic

The first systematic survey of the conceptual history of basic logical terminology in ancient China.

Li, Qi and Shu

A reissue with a foreword and supplement, of a modern classic published in 1960. The invention of the mechanical clock was one of the most important turning points in the history of science and technology. This study revealed six centuries of mechanical clockwork preceding the first mechanical escapement clocks of the West of about AD 1300. Detailed and fully illustrated accounts of elaborate Chinese clocks are accompanied by a discussion of the social context of the Chinese inventions and an assessment of their possible transmission to medieval Europe. For this revised edition, Dr Joseph Needham has contributed a new foreword on recent research and perceptions. In a supplement John H. Combridge details a modern reconstruction of Su Sung's timekeeping device, which together with textual studies modifies our understanding of this important early technology.

Science and Civilisation in China: Volume 6, Biology and Biological Technology, Part 2, Agriculture

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The fifth volume of Dr Needham's immense undertaking, like the fourth, is subdivided into parts for ease of assimilation and presentation, each part bound and published separately. The volume as a whole covers the subjects of alchemy, early chemistry, and chemical technology (which includes military invention, especially gunpowder and rockets; paper and printing; textiles; mining and metallurgy; the salt industry; and ceramics).

The Shorter Science and Civilisation in China

A History of Chinese Science and Technology (Volumes 1, 2 & 3) presents 44 individual lectures, beginning with Ancient Chinese Science and Technology in the Process of Human Civilizations and An Overview of Ancient Chinese Science and Technology, and continuing with in-depth discussions of several issues in the history of science and the Needham Puzzle, interspersed with topics on Astronomy, Arithmetic, Agriculture, and Medicine, The Four Great Inventions, and various technological areas closely related to clothing, food, shelter, and transportation. This book is the most authoritative work on the history of Chinese Science and Technology. It is the Winner of the China Book Award, the Shanghai Book Award (1st prize), and the China Classics International (State Administration of Press, Publication, Radio, Film and Television of The People's Republic of China) and offers an essential resource for academic researchers and non-experts alike. It

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originated with a series of 44 lectures presented to top Chinese leaders, which received very positive feedback. Written by top Chinese scholars in their respective fields from the Institute for the History of Nature Sciences, Chinese Academic Sciences and many other respected Chinese organizations, the book is intended for scientists, researchers and postgraduate students working in the history of science, philosophy of science and technology, and related disciplines. Yongxiang Lu is a professor, former president and member of the Chinese Academy of Sciences.

Science and Civilisation in China: Volume 3, Mathematics and the Sciences of the Heavens and the Earth

The Gunpowder Epic is one of three planned publications on military technology within Dr Needham's immense undertaking. The discovery of gunpowder in China by the 9th century AD was followed by its rapid applications. It is now clear that the whole development from bombs and grenades to the invention of the metal-barrel hand gun took place in the Chinese culture area before Europeans had any knowledge of the mixture itself. Uses in civil engineering and mechanical engineering were equally important, before the knowledge of gunpowder spread to Europe in the thirteenth and fourteenth centuries. Dr Needham's new work continues to demonstrate the major importance of Chinese science and technology

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to world history and maintains the tradition of one of the great scholarly works of the twentieth century.

Science and Civilisation in China: Volume 4, Physics and Physical Technology, Part 3, Civil Engineering and Nautics

1. Mathematics 2. The sciences of the heavens: astronomy 3. The sciences of the heavens: meteorology 4. The sciences of the earth: geography and map-making 5. The sciences of the earth: geology and related sciences 6. Physics.

Clerks and Craftsmen in China and the West

Modern Notions of Civilization and Culture in China

The captivating, award-winning look at ancient China's unparalleled achievements now gets a lavish, revised color edition. Undisputed masters of invention and discovery, the ancient Chinese made pioneering strides in engineering, medicine, technology, math, science, warfare, transportation, and music that helped inspire the West's agricultural and industrial revolutions. They were the first to drill for oil, build a suspension bridge, understand how blood circulates through the body, and

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even isolate sex hormones. Based on research by the late Dr. Joseph Needham, author of the 25-volume epic "Science and Civilisation of China" and the world's foremost scholar of Chinese science, "The Genius of China" captures the spirit and excitement of centuries of ingenuity.

Science and Civilisation in China: Volume 6, Biology and Biological Technology, Part 3, Agro-Industries and Forestry

Today Chinese cuisine is enjoyed in many parts of the world, yet little is known in the West about the technologies involved in making its characteristic ingredients. H. T. Huang's book is the first history of Chinese food technology in a Western language. It describes the conversion of agricultural commodities into food and drink, and explores the origins, development and scientific basis of traditional Chinese technology as applied to the processing of four food categories: the fermentation of alcoholic drinks from grains; the conversion of soybeans into soyfoods and condiments; the preservation of foods and the production of vegetable oils, malt sugar, starch, etc; and, lastly, the processing and utilization of tea. Where possible the Chinese experience is compared with equivalent systems in the West and elsewhere. The book ends with reflections on how nature, technology and human intervention have shaped the discovery and innovation of processed foods in traditional China.

Science and Civilisation in China: Volume 5, Chemistry and Chemical Technology, Part 9, Textile Technology: Spinning and Reeling

Contains two separate works. The first, by Christian Daniels, is a comprehensive history of Chinese sugar cane technology from ancient times to the early twentieth century. Dr Daniels includes an account of the contribution of Chinese techniques and machinery to the development of world sugar technology in the pre-modern period, devoting special attention to the transfer of this technology to the countries of South-East and East Asia in the period after the sixteenth century. The second, by Nicholas K. Menzies, is a history of forestry in China. A final section compares China's history of deforestation with the cases of Europe and Japan.

Science and Civilisation in China: Volume 4, Physics and Physical Technology, Part 2, Mechanical Engineering

Volumes I and II of the major series: China: its language, geography and history ; Chinese philosophy and scientific thought.

Science and Civilisation in China: Volume 5, Chemistry and Chemical Technology, Part 13, Mining

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From the bestselling author of *The Ascent of Money* and *The Square and the Tower* Western civilization's rise to global dominance is the single most important historical phenomenon of the past five centuries. How did the West overtake its Eastern rivals? And has the zenith of Western power now passed? Acclaimed historian Niall Ferguson argues that beginning in the fifteenth century, the West developed six powerful new concepts, or "killer applications"—competition, science, the rule of law, modern medicine, consumerism, and the work ethic—that the Rest lacked, allowing it to surge past all other competitors. Yet now, Ferguson shows how the Rest have downloaded the killer apps the West once monopolized, while the West has literally lost faith in itself. Chronicling the rise and fall of empires alongside clashes (and fusions) of civilizations, *Civilization: The West and the Rest* recasts world history with force and wit. Boldly argued and teeming with memorable characters, this is Ferguson at his very best.

The Shorter Science and Civilisation in China: Volume 3

"Discusses the conceptual framework of policy studies, the unfolding and widening horizons of science and technology in the global context and the Chinese historical evolution"--

Science and Civilisation in China: Volume 5, Chemistry and

Chemical Technology, Part 1, Paper and Printing

As Dr Needham's immense undertaking gathers momentum it has been found necessary to subdivide volumes into parts, each bound and published separately. The first two parts of Volume IV deal respectively with the physical sciences and with the diverse applications of physics in the many branches of mechanical engineering. The third deals with civil and hydraulic engineering and with nautical technology.

China and the West

Joseph Needham, who died in 1995, was the greatest British historian of China of the last 100 years. His Science and Civilisation in China series caused a seismic shift in western perceptions of China, revealed as perhaps the world's most scientifically and technically productive country in pre-modern times. But why did the scientific and industrial revolutions not happen in China? Joseph Needham reflects on possible answers to this question in the concluding volume of this series and provides fascinating insights into his great intellectual quest.

Science and Civilisation in China: Volume 2, History of Scientific Thought

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Volume VI Part 3 of Science and Civilisation in China contains two separate works. The first, by Christian Daniels, is a comprehensive history of Chinese sugarcane technology from ancient times to the early twentieth century. Dr. Daniels includes an account of the contribution of Chinese techniques and machinery to the development of world sugar technology in the premodern period, devoting special attention to the transfer of this technology to the countries of Southeast and East Asia in the period after the sixteenth century. The second, by Nicholas K. Menzies, is a history of forestry in China. Dr. Menzies identifies a tradition of forest management that can be traced to the earliest Chinese written records, and describes methods of silviculture, and the major timber species used in Chinese forestry. A final section compares China's history of deforestation with the cases of Europe and Japan. Each of these works will interest scholars of Chinese science, culture, and ancient agriculture as well as historians of science.

Science and Civilisation in China: Volume 5, Chemistry and Chemical Technology, Part 6, Military Technology: Missiles and Sieges

This study, the first of two parts, gives a comprehensive account of Chinese textiles and textile technology and deals with the evolution of bast fibre spinning and silk-reeling in the history of China. These operations are the basic techniques

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in the production of yarn and thread, pre-requisite to weaving, and any study of Chinese textile technology must start with the raw material obtained from fibre plants such as hemp, ramie, jute, cotton, etc, and silk reeled off from cocoons of the domestic silkworm. The time-span covered runs from the neolithic to the nineteenth century. Archaeological and pictorial evidence, the bulk of it hitherto unpublished in the West, is brought together with Chinese textual sources (which are extensively translated and interpreted) to illustrate Chinese achievements in this field. Professor Kuhn's study reveals the way in which Chinese textile-technological inventiveness has influenced textile production in other regions of the world and in medieval Europe. It explains how textile technology reached its high point between the tenth and thirteenth centuries and attempts to indicate the reasons for its subsequent relative decline. The development of the textile industry in Europe was a key factor in the rise of capitalism. In the case of China after Sung times, textile technology and the organisation of textile labour may help indicate why such a development did not take place in China.

A History of Chinese Science and Technology

Three previous volumes of this series by Colin Ronan are each available in hardback as well as paperback. Volume I introduces the reader to the country of China: its history, geography and language. The major part of this book is devoted to the history of scientific thought in China itself. In Volume II, the first section

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deals with mathematics, and this is followed by a section dealing with mathematics. Then follow sections on astronomy, meteorology and the earth sciences. The volume closes with a description of various aspects of Chinese physics. Volume III looks in some detail at one of the greatest contributions the Chinese made to physics - the discovery of the magnetic compass.

Civilization

After two volumes mainly introductory, Dr Needham now embarks upon his systematic study of the development of the natural sciences in China. The Sciences of the Earth follow: geography and cartography, geology, seismology and mineralogy. Dr Needham distinguishes parallel traditions of scientific cartography and religious cosmography in East and West, discussing orbocentric wheel-maps, the origins of the rectangular grid system, sailing charts and relief maps, Chinese survey methods, and the impact of Renaissance cartography on the East. Finally- and here Dr Needham's work has no Western predecessors-there are full accounts of the Chinese contribution to geology and mineralogy.

China's Environmental Governing and Ecological Civilization

How were Chinese pots made, glazed and fired? Why did China discover porcelain

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more than 1,000 years before the West? What are the effects of China's influence on world ceramics? These questions (and many more) are answered in this history of Chinese ceramic technology, from the late Stone Age to the twenty-first century AD. The non-specialist reader will appreciate its unique coverage of research materials originally published in several languages.

Science and Technology in Contemporary China

This second part of the sixth volume of Joseph Needham's great enterprise is an account of the technological history of agriculture, with major sections devoted to field systems, implements and techniques (sowing, harvesting, storing) and crop systems (what has grown and where and how crops rotated).

The Shorter Science and Civilisation in China: Volume 1

The second volume of Dr Joseph Needham's great work Science and Civilisation in China is devoted to the history of scientific thought. Beginning with ancient times, it describes the Confucian milieu in which arose the organic naturalism of the great Taoist school, the scientific philosophy of the Mohists and Logicians, and the quantitative materialism of the Legalists. Thus we are brought on to the fundamental ideas which dominated scientific thinking in the Chinese middle ages.

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The author opens his discussion by considering the remote and pictographic origins of words fundamental in scientific discourse, and then sets forth the influential doctrines of the Two Forces and the Five Elements. Subsequently he writes of the important sceptical tradition, the effects of Buddhist thought, and the Neo-Confucian climax of Chinese naturalism. Last comes a discussion of the conception of Laws of Nature in China and the West.

The Shorter Science and Civilisation in China: Volume 4

Before fate intervened, Joseph Needham was a distinguished biochemist at Cambridge University, married to a fellow scientist. In 1937 he was asked to supervise a young Chinese student named Lu Gwei-Djen, and in that moment began the two greatest love affairs of his life - Miss Lu, and China. Miss Lu inspired Needham to travel to China where he initially spent three dangerous years as a wartime diplomat. He established himself as the pre-eminent China scholar of all time, firm in his belief that China would one day achieve world prominence. By the end of his life, Needham had become a truly global figure, travelling endlessly and honoured by all - though banned from America because of his politics. And in 1989, after a fifty-two year affair, he finally married the woman who had first inspired his passion. The Magnificent Barbarian is Simon Winchester at his best - at once a magnificent portrait of one man's remarkable life and a riveting exploration of the country that so engaged him.

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Science and Civilisation in China: Volume 6, Biology and Biological Technology, Part 6, Medicine

A study of Chinese astronomy accessible to the non-specialist.

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