



# KNOWLEDGE AND COSMOS

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Development and Decline of  
the Medieval Perspective

*Second Edition*

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ROBERT K. DEKOSKY

# Knowledge And Cosmos Development And Decline Of The Medieval Perspective

**Alistair Cameron Crombie**



## **Knowledge And Cosmos Development And Decline Of The Medieval Perspective:**

**Knowledge and Cosmos** Robert K. DeKosky,1979-09-01      *Knowledge and Cosmos* Robert K. DeKosky,2023-10-10 In *Knowledge and Cosmos Development and Decline of the Medieval Perspective* 2nd Edition Robert K DeKosky focuses on issues in astronomy cosmology physics matter theory philosophy and theology vital to the Copernican Revolution This book describes efforts among individuals advocating different world views to fit new ideas compatibly into broad perspectives reflecting four traditional patterns of interpretation teleological mechanical occultist and mathematico descriptive These four modes had guided medieval accounts of heavenly phenomena material process and motion The teleological explanation prevalent in Aristotle s natural philosophy posited final causes ends or goals toward which objects strove or attempted to become Ancient classical atomists had emphasized strictly mechanical explanations invoking direct material contact and collision of moving matter as agents of physical change Traditions of astrology magic and alchemy embraced an occultist pattern of interpretation citing hidden forces opaque to both sensual detection and rational understanding as explanations of various phenomena Finally the mathematico descriptive approach interpreted natural phenomena according to geometric or arithmetic relationships unlike the other three this did not involve causal explanation of a process Part I discusses development of the four patterns in the ancient period and their uneasy medieval relationships with each other and with basic Judaeo Muslim Christian exigencies of faith Theory of the heavens follows including the mathematico descriptive approach of Ptolemaic astronomy the teleological and mechanical cosmology of Aristotle and occultist interpretations of astrologers and magicians Part I then turns to matter and materiality discussing differences among the mechanical philosophy of classical atomism teleological emphases in Aristotle s material theory and occultist assumptions of some alchemists Finally Part I analyzes conceptions of motion focusing on Aristotelian interpretations and critical commentaries thereon during the Middle Ages Part II relates struggles of leading early modern figures to adapt new concepts e g Copernicus heliocentric astronomy cosmology Galileo s inertial theories of motion and Kepler s elliptical planetary orbit to an allegiance to two or more of the four patterns of interpretation By this approach it identifies decreasing dependence on teleological explanation of physical phenomena as crucial to decline of medieval interpretations of those phenomena followed by rejection of teleology in the natural philosophy of Descartes and subsequent fruitful confluence of the mechanical mathematico descriptive and occultist patterns in the physics and cosmology of Isaac Newton      **Knowledge and Cosmos** Robert K. DeKosky,2023-10-10 In *Knowledge and Cosmos Development and Decline of the Medieval Perspective* 2nd Edition Robert K DeKosky focuses on issues in astronomy cosmology physics matter theory philosophy and theology vital to the Copernican Revolution This book describes efforts among individuals advocating different world views to fit new ideas compatibly into broad perspectives reflecting four traditional patterns of interpretation teleological mechanical occultist and mathematico descriptive These four modes had guided medieval accounts of heavenly phenomena material process and

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**A Concise History of Solar and Stellar Physics** Jean-Louis Tassoul, Monique Tassoul, 2014-11-28 This book provides a comprehensive overview of the history of ideas about the sun and the stars from antiquity to modern times Two theoretical astrophysicists who have been active in the field since the early 1960s tell the story in fluent prose About half of the book covers most of the theoretical research done from 1940 to the close of the twentieth century a large body of work that has to date been little explored by historians The first chapter which outlines the period from about 3000 B C to 1700 A D shows that at every stage in history human beings have had a particular understanding of the sun and stars and that this has continually evolved over the centuries Next the authors systematically address the immense mass of observations astronomy accumulated from the early seventeenth century to the early twentieth The remaining four chapters examine the history of the field from the physicists perspective the emphasis being on theoretical work from the mid 1840s to the late 1990s from thermodynamics to quantum mechanics from nuclear physics and magnetohydrodynamics to the remarkable advances through to the late 1960s and finally to more recent theoretical work Intended mainly for students and teachers of astronomy this book will also be a useful reference for practicing astronomers and scientifically curious general readers

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**History of Science Syllabus Sampler** ,1992 **The Watershed**

Arthur Koestler, 1984-09-28

Styles of Scientific Thinking in the European Tradition Alistair Cameron Crombie, 1994

## **Knowledge And Cosmos Development And Decline Of The Medieval Perspective** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Knowledge And Cosmos Development And Decline Of The Medieval Perspective**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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