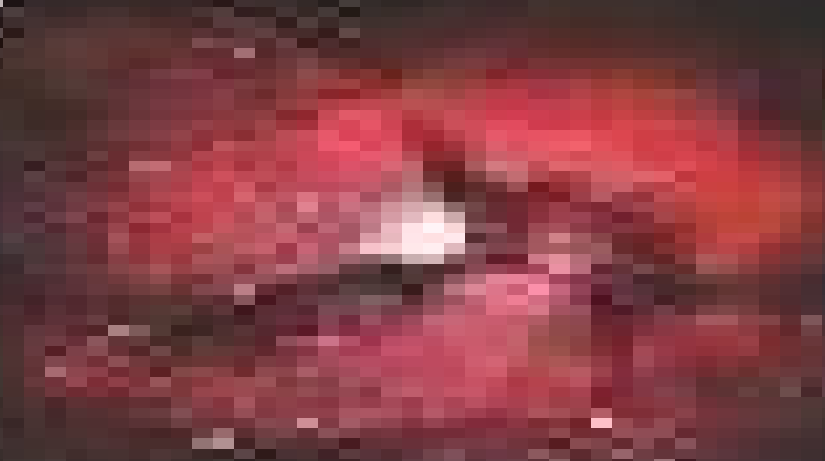


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Core Principles of Special and General Relativity James Luscombe, 2018-12-07 This book provides an accessible yet thorough introduction to special and general relativity crafted and class tested over many years of teaching Suitable for advanced undergraduate and graduate students this book provides clear descriptions of how to approach the mathematics and physics involved It is also contains the latest exciting developments in the field including dark energy gravitational waves and frame dragging The table of contents has been carefully developed in consultation with a large number of instructors teaching courses worldwide to ensure its wide applicability to modules on relativity and gravitation Features A clear accessible writing style presenting a sophisticated approach to the subject that remains suitable for advanced undergraduate students and above Class tested over many years To be accompanied by a partner volume on Advanced Topics for students to further extend their learning

The Reception of John Philoponus **Natural Philosophy** Emmanuele Vimercati, 2024-11-14 In some of his most famous works John Philoponus c 490 570 CE confronts numerous aspects of Aristotle s philosophy and science Yet the influence of these reinterpretations and critiques remains under examined This volume fills this gap by uncovering the considerable impact of Philoponus natural philosophy in both the medieval and Renaissance periods Divided into three parts the first part of the volume introduces central concepts in Philoponus philosophy Highlighting the areas of crossover as well as of disagreement with Aristotle chapters dedicate specific attention to Philoponus theories of place matter and vacuum his ideas of motion his discussion of the heavens and the fifth element and his anthropology This is followed in parts two and three by a focus on Philoponus reception in the Middle Ages and the Renaissance respectively Shedding light on the scientific ideas circulating in these periods international experts explore a range of topics from the renewal of Aristotelianism in the Arab world through the medieval Byzantine and Latin traditions to Philoponus appearance in the early works of Galileo Engaging with a number of Philoponus key tracts The Reception of John Philoponus Natural Philosophy is both a much needed study of Philoponus influence and a revealing analysis of how Aristotelian science was received adapted critiqued and mediated throughout the Middle Ages and the Renaissance

God the Creator Robert Cummings Neville, 1992-02-13 God the Creator provides a detailed exposition of a conception of God as the creator of everything determinate It does not defend an established conception such as the Thomist the Calvinist or the Process theological idea but rather elaborates the ancient theme of creation ex nihilo in a new form appropriate to the contemporary world Part one is a rigorous philosophical development of the idea of God as creator ex

nihilo arguing that an adequate solution to the problem of the one and the many demands such a conception This part includes a dialectical examination of contemporary and classical theories of being Part two asks how one can have knowledge of the kind of God described previously it deals with experience analogy and dialectic Part three applies the conception developed in part one to fundamental religious conceptions such as the object of worship the nature of religion and the practices of private and public religious life It presents theories arising from the conception of creation ex nihilo for the interpretation of religious concern conversion faith certainty solitude bliss service liturgy providence evangelism dedication reconciliation brotherhood discipline the integration of public and private religion relative to other dimensions of life freedom love and glory Though the language arises from the Christian tradition and expresses an orthodox strand of that religion the argument weaves throughout the concerns of many world religions

Cosmology's Century P. J. E. Peebles, 2022-04-26 From Nobel Prize winning physicist P J E Peebles the story of cosmology from Einstein to today Modern cosmology began a century ago with Albert Einstein's general theory of relativity and his notion of a homogenous philosophically satisfying cosmos Cosmology's Century is the story of how generations of scientists built on these thoughts and many new measurements to arrive at a well tested physical theory of the structure and evolution of our expanding universe In this landmark book one of the world's most esteemed theoretical cosmologists offers an unparalleled personal perspective on how the field developed P J E Peebles was at the forefront of many of the greatest discoveries of the past century making fundamental contributions to our understanding of the presence of helium and microwave radiation from the hot big bang the measures of the distribution and motion of ordinary matter and the new kind of dark matter that allows us to make sense of these results Taking readers from the field's beginnings Peebles describes how scientists working in independent directions found themselves converging on a theory of cosmic evolution interesting enough to warrant the rigorous testing it passes so well He explores the major advances some inspired by remarkable insights or perhaps just lucky guesses as well as the wrong turns taken and the roads not explored He shares recollections from major players in this story and provides a rare inside look at how science is really done A monumental work Cosmology's Century also emphasizes where the present theory is incomplete suggesting exciting directions for continuing research

Chemistry from First Principles Jan C. A. Boeyens, 2008-09-11 Chemistry from First Principles examines the appearance of matter in its most primitive form It features the empirical rules of chemical affinity that regulate the synthesis and properties of molecular matter analyzes the compatibility of the theories of chemistry with the quantum and relativity theories of physics formulates a consistent theory based on clear physical pictures and manageable mathematics to account for chemical concepts such as the structure and stability of atoms and molecules This text also explains the self similarity between space time nuclear structure covalent assembly biological growth planetary systems and galactic conformation

Philosophy and the Sciences for Everyone Michela Massimi, 2014-09-25 What is the origin of our universe What are dark matter and dark energy What is our role in the

universe as human beings capable of knowledge What makes us intelligent cognitive agents seemingly endowed with consciousness Scientific research across both the physical and cognitive sciences raises fascinating philosophical questions Philosophy and the Sciences For Everyone introduces these questions and more It begins by asking what good is philosophy for the sciences before examining the following questions The origin of our universe Dark matter and dark energy Anthropic reasoning in philosophy and cosmology Evolutionary theory and the human mind What is consciousness Intelligent machines and the human brain Embodied Cognition Each chapter includes an introduction summary and study questions and there is a glossary of technical terms Designed to be used on the corresponding Philosophy and the Sciences online course offered by the University of Edinburgh this book is also a superb introduction to central topics in philosophy of science and popular science

Nature and Divinity in Plato's Timaeus Sarah Broadie, 2011-11-10 Plato's *Timaeus* is one of the most influential and challenging works of ancient philosophy to have come down to us Sarah Broadie's rich and compelling study proposes new interpretations of major elements of the *Timaeus* including the separate Demiurge the cosmic beginning the second mixing the Receptacle and the Atlantis story Broadie shows how Plato deploys the mythic themes of the *Timaeus* to convey fundamental philosophical insights and examines the profoundly differing methods of interpretation which have been brought to bear on the work Her book is for everyone interested in Ancient Greek philosophy cosmology and mythology whether classicists philosophers historians of ideas or historians of science It offers new findings to scholars familiar with the material but it is also a clear and reliable resource for anyone coming to it for the first time

Basic Principles Of Chinese Philosophy (Volumes 1 & 2) Jiaxiang Hu, 2019-01-22 Among world's three major philosophic traditions Chinese philosophy excels in ethical discourse As a collective wisdom on a par with Aristotle's *Ethics* and Kant's *Critique of Practical Reason* Chinese philosophy now needs to be systematized and developed Today Chinese philosophy per se has often been reduced to the historical approach to it hence its slower development in comparison with European and Indian philosophies The author of this book avails himself of Kant's model of human psychic structure synthesizes the basic elements of Chinese philosophy into a rigorous theoretical framework and presents a panoptic view of the edifice of traditional Chinese philosophy

Metaphysics Alexander Baumgarten, Immanuel Kant, 2013-07-18 Alexander Baumgarten 1714-1762 an influential German philosopher preceding Immanuel Kant is remembered mainly as a founder of modern aesthetics Yet his manual on metaphysics was one of the chief textbooks of philosophical instruction in latter 18th Century Germany Originally published in Latin Kant used the *Metaphysics* for nearly four decades as the basis for lectures on metaphysics anthropology and religion Kant composed many of the preparatory sketches for the *Critique of Pure Reason* in the blank interleaved pages of his personal copy Available for the first time in English this critical translation draws from the original seven Latin editions and Georg Friedrich Meier's 18th century German translation Together with a historical and philosophical introduction extensive glossaries and notes the text is supported by translations of Kant's elucidations and notes Eberhard's insertions in

the 1783 German edition and texts from the writings of Meier and Wolff For scholars of Kant the German Enlightenment and the history of metaphysics Alexander Baumgarten's *Metaphysics* is an essential authoritative resource to a significant philosophical text

Literature 1997, Part 1 Astronomisches Rechen-Institut ARI, 2013-11-11 Astronomy and Astrophysics Abstracts is devoted to the recording summarizing and indexing of astronomical publications throughout the world Two volumes are scheduled to appear per year Volume 67 records 10 903 papers covering besides the classical fields of astronomy and astrophysics such matters as space flights related to astronomy lunar and planetary probes and satellites meteorites and interplanetary matter X rays and cosmic rays quasars and pulsars The abstracts are classified under more than one hundred subject categories thus permitting quick surveying of the bulk of material published on the same topic within six months For instance this volume records 119 papers on minor planets 155 papers on supernovae and 554 papers on cosmology

Presocratic Philosophy Daniel W. Graham, 2017-05-15 This book presents some of the most recent trends and developments in Presocratic scholarship A wide range of topics are covered from the metaphysical to the moral to the methodological as well as a broad range of authors from recognized figures such as Heraclitus and Parmenides to Sophistic thinkers whose place has traditionally been marginalized such as Gorgias and the author of the *Dissoi Logoi* Several of the pieces are concerned with the later reception and influence of the Presocratics on ancient philosophy an area of study important both for the light it sheds on our evidence for Presocratic thought and for understanding the philosophical power of their ideas Drawing together contributions from distinguished authorities and internationally acclaimed scholars of ancient philosophy this book offers new challenges to traditional interpretations in some areas of Presocratic philosophy and finds new support for traditional interpretations in other areas

The Little Book of the Big Bang Craig J. Hogan, 2013-06-29 What do we know about the origins of the Universe and more important how do we know it In a small easy to read package this book introduces you to all of the important ideas about the Big Bang and its consequences Craig Hogan explains what happened in the early days of the universe why we think it's expanding and how the expansion can look the same from everywhere at once different ways the universe could end and the meaning of such terms as cosmic inflation cosmic background radiation and dark matter For everyone who has always wondered just what the cosmologists are talking about but could never find the basics explained clearly and simply this is the book to read

[History of the Christian Church](#) Williston Walker, 2014-06-30 Since publication of the first edition in 1918 *A History of the Christian Church* by Williston Walker has enjoyed outstanding success and recognition as a classic in the field Written by an eminent theologian it combines in its narrative a rare blend of clarity unity and balance In light of significant advances in scholarship in recent years extensive revisions have been made to this fourth edition Three scholars from Union Theological Seminary in New York have incorporated new historical discoveries and provided fresh interpretations of various periods in church history from the first century to the twentieth The result is a thoroughly updated history which preserves the tenor and structure of Walker's

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Philosophy V2 V Zenkovsky,2014-06-23 First published in 2003 This is volume II in the history of Russian philosophy written
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