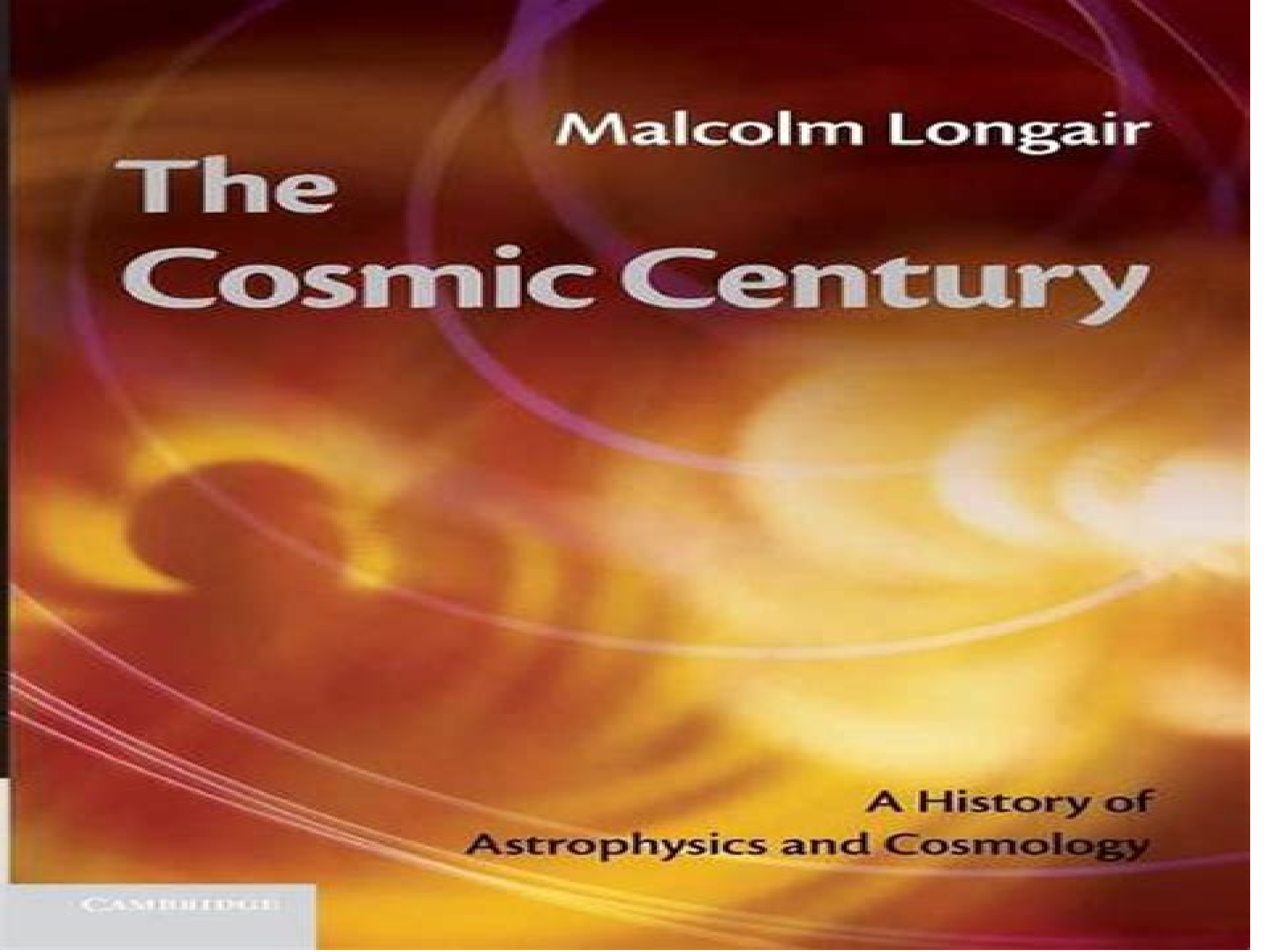




Malcolm Longair

The Cosmic Century

A History of
Astrophysics and Cosmology

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The Cosmic Century Malcolm S. Longair, 2006-06-15 The twentieth century witnessed the development of astrophysics and cosmology from subjects which scarcely existed to two of the most exciting and demanding areas of contemporary scientific inquiry In this book Malcolm Longair reviews the historical development of the key areas of modern astrophysics linking the strands together to show how they have led to the extraordinarily rich panorama of modern astrophysics and cosmology While many of the great discoveries were derived from pioneering observations the emphasis is upon the development of theoretical concepts and how they came to be accepted These advances have led astrophysicists and cosmologists to ask some of the deepest questions about the nature of our Universe and have pushed astronomical observations to the very limit This is a fantastic story and one which would have defied the imaginations of even the greatest storytellers

The Cosmic Century Malcolm S. Longair, 2006-06-15 Reviews the historical development of all the key areas of modern astrophysics

Astrophysics, Astronomy and Space Sciences in the History of the Max Planck Society Luisa Bonolis, Juan-Andres Leon, 2022-12-05 This book provides the first comprehensive historical account of the evolution of scientific traditions in astronomy astrophysics and the space sciences within the Max Planck Society Structured with in depth archival research interviews with protagonists unpublished photographs and an extensive bibliography it follows a unique history from the post war relaunch of physical sciences in West Germany to the spectacular developments and successes of cosmic sciences in the second half of the 20th century up to the emergence of multi messenger astronomy It reveals how the Society acquired national and international acclaim in becoming one of the world s most productive research organizations in these fields

Embodiment and the Cosmic Perspective in Twentieth-Century Fiction Marco Caracciolo, 2020-05-13 In dialogue with groundbreaking technologies and scientific models twentieth century fiction presents readers with a vast mosaic of perspectives on the cosmos The literary imagination of the world beyond the human scale however faces a fundamental difficulty if as researchers in both cognitive science and narrative theory argue fiction is a practice geared toward the human embodied mind how can it cope with scientific theories and concepts the Big Bang quantum physics evolutionary biology and so on that resist our common sense intuitions and appear discontinuous in spatial as well as temporal terms with our bodies This book sets out to answer this question by showing how the embodiment of mind continues to matter even as writers and readers are pushed out of their terrestrial comfort zone Offering thoughtful commentary on work by both mainstream literary authors and science fiction writers from Primo Levi to Jeanette Winterson from Olaf Stapledon to Pamela Zoline *Embodiment and the Cosmic Perspective in Twentieth Century Fiction* explores the multiple ways in which narrative can radically defamiliarize our bodily experience and bridge the gap with cosmic realities This investigation affords an opportunity to reflect on the role of literature as it engages with science and charts its epistemological and ethical ramifications

High Energy Astrophysics Malcolm S. Longair, 2011-02-03 Providing students

with an in depth account of the astrophysics of high energy phenomena in the Universe the third edition of this well established textbook is ideal for advanced undergraduate and beginning graduate courses in high energy astrophysics Building on the concepts and techniques taught in standard undergraduate courses this textbook provides the astronomical and astrophysical background for students to explore more advanced topics Special emphasis is given to the underlying physical principles of high energy astrophysics helping students understand the essential physics The third edition has been completely rewritten consolidating the previous editions into one volume It covers the most recent discoveries in areas such as gamma ray bursts ultra high energy cosmic rays and ultra high energy gamma rays The topics have been rearranged and streamlined to make them more applicable to a wide range of different astrophysical problems

The Big Bang and God Chandra Wickramasinghe, Theodore Walker, 2015-09-09 As advanced by astronomer cosmologist Sir Fred Hoyle astronomy biology astrobiology astrophysics and cosmology converge agreeably with natural theology In The Big Bang and God these interdisciplinary convergences are developed by an astronomer collaborating with a theologian

Northern Star R. Peter Broughton, 2018-01-18 John Stanley Plaskett was Canada's pre eminent astronomer in the first half of the twentieth century His legacy lives on in the observatory he founded in Victoria British Columbia and the reputation he built for Canada as a nation making vital contributions to basic science Plaskett's pioneering work with the most massive stars and his definitive determination of the rotation of the Milky Way Galaxy earned him international recognition of the highest order Northern Star explores Plaskett's unorthodox and fascinating life from his rural roots near Woodstock Ontario through his days as a technician at the University of Toronto to his initiation in astronomy at the Dominion Observatory in Ottawa His greatest achievements followed after he persuaded the government of Canada in spite of the strictures of the First World War to finance what was then the world's largest operational telescope Peter Broughton's accessible and engaging prose illuminates Plaskett's numerous achievements and the social political economic and religious milieu surrounding them This richly illustrated volume invites readers to understand the pull that Plaskett's passions personality and motivations exerted on him during his lifetime

A Cultural History of Chemistry in the Nineteenth Century Peter J. Ramberg, 2023-12-14 A Cultural History of Chemistry in the Nineteenth Century covers the period from 1815 to 1914 and the birth of modern chemistry The elaboration of atomic theory and new ideas of periodicity structure bonding and equilibrium emerged in tandem with new instruments and practices The chemical industry expanded exponentially fuelled by an increasing demand for steel aluminium dyestuffs pharmaceuticals and consumer goods And the chemical laboratory became established in its two distinct modern settings of the university and industry At the turn of the century the discovery of radioactivity took hold of the public imagination drawing chemistry closer to physics even as it threatened to undermine the whole concept of atomism The 6 volume set of the Cultural History of Chemistry presents the first comprehensive history from the Bronze Age to today covering all forms and aspects of chemistry and its ever changing social context The themes covered in each volume

are theory and concepts practice and experiment laboratories and technology culture and science society and environment trade and industry learning and institutions art and representation Peter J Ramberg is Professor of the History of Science at Truman State University USA Volume 5 in the Cultural History of Chemistry set General Editors Peter J T Morris University College London UK and Alan Rocke Case Western Reserve University USA *Supernova Spectacles* Maximilian Cross, AI, 2025-03-04 *Supernova Spectacles* unveils the dramatic world of stellar explosions emphasizing their crucial role in cosmic synthesis and the creation of heavy elements like gold iron and oxygen These cataclysmic events are more than just destruction they are essential for seeding the universe with the building blocks of planets and life You ll discover how nuclear fusion within stars leads to their explosive demise scattering newly forged elements into the interstellar medium The book progresses from basic concepts of stellar evolution to detailed examinations of different types of supernovas including Type Ia supernovas which act as cosmic distance markers It demonstrates how these stellar explosions influence star formation and the overall chemical evolution of the universe By blending observational data with theoretical models *Supernova Spectacles* provides a comprehensive yet accessible understanding of how supernovas shape our universe [A Companion to the History of American Science](#) Georgina M. Montgomery, Mark A. Largent, 2019-09-23 *A Companion to the History of American Science* offers a collection of essays that give an authoritative overview of the most recent scholarship on the history of American science Covers topics including astronomy agriculture chemistry eugenics Big Science military technology and more Features contributions by the most accomplished scholars in the field of science history Covers pivotal events in U S history that shaped the development of science and science policy such as WWII the Cold War and the Women s Rights movement **Galaxy Formation** Malcolm S. Longair, 2023-04-10 Delineating the huge strides taken in cosmology in the past ten years this much anticipated second edition of Malcolm Longair s highly appreciated textbook has been extensively and thoroughly updated It tells the story of modern astrophysical cosmology from the perspective of one of its most important and fundamental problems how did the galaxies come about Longair uses this approach to introduce the whole of what may be called classical cosmology What s more he describes how the study of the origin of galaxies and larger scale structures in the Universe has provided us with direct information about the physics of the very early Universe

Building the General Relativity and Gravitation Community During the Cold War Roberto Lalli, 2017-08-21 This monograph presents a new perspective on the history of general relativity It outlines the attempts to establish an institutional framework for the promotion of the field during the Cold War Readers will learn the difficulties that key figures experienced and overcame during this period of global conflict The author analyzes the subtle interconnections between scientific and political factors He shows how politics shaped the evolution of general relativity even though it is a field with no military applications He also details how different scientists held quite different views about what political meant in their efforts to pursue international cooperation The narrative examines the specific epistemic features of general relativity that helped

create the first official international scientific society It answers Why did relativity bring about this unique result Was it simply the product of specific actions of particular actors having an illuminated view of international relations in the specific context of the Cold War Or was there something in the nature of the field that inspired the actors to pioneer new ways of international cooperation The book will be of interest to historians of modern science historians of international relations and historians of institutions It will also appeal to physicists and interested general readers **The Renaissance of General**

Relativity in Context Alexander S. Blum,Roberto Lalli,Jürgen Renn,2020-11-12 This contributed volume explores the renaissance of general relativity after World War II when it transformed from a marginal theory into a cornerstone of modern physics Chapters explore key historical processes related to the theory of general relativity in addition to presenting a thorough treatment of the relevant science behind these episodes A broad historiographical framework is introduced first thus providing the broad context in which the given computational approaches and case studies occurred Written by an international and interdisciplinary group of expert authors these chapters will bring readers to a more complete understanding of Einstein s theory Specific topics include Social and citation networks The Fock Infeld dispute Wheeler s turn to gravitation theory The position of general relativity in theories of fundamental interactions The pursuit of a quantum theory of gravity The emergence of dark matter in relation to cosmological models Institutional frameworks for gravitational wave search in Europe The Renaissance of General Relativity in Context is ideal for historians philosophers and sociologists of science Students and researchers in physics will also be interested in the topics explored **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 **Heart of Darkness**

Jeremiah P. Ostriker, Simon Mitton, 2024-04-30 Humanity's ongoing quest to unlock the secrets of dark matter and dark energy **Heart of Darkness** describes the incredible saga of humankind's quest to unravel the deepest secrets of the universe. Over the past forty years, scientists have learned that two little understood components, dark matter and dark energy, comprise most of the known cosmos, explain the growth of all cosmic structure, and hold the key to the universe's fate. The story of how evidence for the so-called Lambda Cold Dark Matter model of cosmology has been gathered by generations of scientists throughout the world is told here by one of the pioneers of the field, Jeremiah Ostriker, and his coauthor Simon Mitton. From humankind's early attempts to comprehend Earth's place in the solar system to astronomers' exploration of the Milky Way galaxy and the realm of the nebulae beyond to the detection of the primordial fluctuations of energy from which all subsequent structure developed, this book explains the physics and the history of how the current model of our universe arose and has passed every test hurled at it by the skeptics. Throughout this rich story, an essential theme is emphasized: how three aspects of rational inquiry—the application of direct measurement and observation, the introduction of mathematical modeling, and the requirement that hypotheses should be testable and verifiable—guide scientific progress and underpin our modern cosmological paradigm. This monumental puzzle is far from complete, however, as scientists confront the mysteries of the ultimate causes of cosmic structure formation and the real nature and origin of dark matter and dark energy.

Heart of Darkness J. P. Ostriker, Simon Mitton, 2013 **Heart of Darkness** describes the incredible saga of humankind's quest to unravel the deepest secrets of the universe. The story of how evidence for the so-called Lambda Cold Dark Matter model of cosmology has been gathered by generations of scientists throughout the world is told here by one of the pioneers of the field, Jeremiah Ostriker, and his coauthor Simon Mitton.

Force and Understanding Howard Caygill, 2020-09-17 For the past thirty years, Howard Caygill has been a distinctive and radical voice in continental philosophy. For the first time, this volume gathers together Caygill's most significant philosophical essays, the majority of which are not freely available and many of which are previously unpublished. Here, a major philosopher is at work, offering rich, rigorous, and politically engaged readings of canonical and lesser-known figures and texts. From Kant and Frantz Fanon to Herman Kahn, founder of the Hudson Institute, Caygill uncovers the untapped resources that the history of philosophy provides for contemporary thought, whilst critically pushing beyond the limits of the tradition. Divided into two parts, the first part of the collection reveals the philosophical backdrop to Caygill's acclaimed study of political resistance, *On Resistance: A Philosophy of Defiance* (2015), whilst the second part sees Caygill further develop his account of resistance through wide-ranging analyses of contemporary culture. Exploring numerous subjects, including Nietzsche, metaphysics, radical politics, and digital resistance, to name but a few, *Force and Understanding* introduces readers to the orienting themes of Caygill's thought and provides the opportunity to engage with one of the most astute, learned, and critical philosophical minds around.

A Brief History of the Universe J.P. McEvoy, 2009-11-05 Since the dawn of humanity, men have attempted to divine the nature of the heavens. The first

astronomers mapped the movement of the seasons and used the positions of the constellations for augurs and astrology Today the search goes ever deeper into the nature of reality and life itself In this accessible overview astrophysicist J P McEvoy tells the story of how our knowledge of the cosmos has developed He puts in context many of the greatest discoveries of all time and many of the dominant personalities Aristotle Copernicus and Isaac Newton and as we approach the modern era Einstein Eddington and Hawking

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The Oxford Handbook of the History of Modern Cosmology Helge Kragh,Malcolm Longair,2019-03-06 Scientific and popular literature on modern cosmology is very extensive however scholarly works on the historical development of cosmology are few and scattered The Oxford Handbook of the History of Modern Cosmology offers a comprehensive and authoritative account of the history of cosmology from the late nineteenth century to the early twenty first century It provides historical background to what we know about the universe today including not only the successes but also the many false starts Big Bang theory features prominently but so does the defunct steady state theory The book starts with a chapter on the pre Einstein period 1860 1910 and ends with chapters on modern developments such as inflation dark energy and multiverse hypotheses The chapters are organized chronologically with some focusing on theory and others more on observations and technological advances A few of the chapters discuss more general ideas relating to larger contexts such as politics economy philosophy and world views

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