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Exploring the History of New Zealand Astronomy

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Exploring History New Zealand Astronomy

Wayne Orchiston, Mayank N. Vahia



Exploring History New Zealand Astronomy:

Exploring the History of New Zealand Astronomy Wayne Orchiston, 2015-12-08 Dr Orchiston is a foremost authority on the subject of New Zealand astronomy and here are the collected papers of his fruitful studies in this area including both those published many years ago and new material The papers herein review traditional Maori astronomy examine the appearance of nautical astronomy practiced by Cook and his astronomers on their various stopovers in New Zealand during their three voyages to the South Seas and also explore notable nineteenth century New Zealand observatories historically from significant telescopes now located in New Zealand to local and international observations made during the 1874 and 1882 transits of Venus and the nineteenth and twentieth century preoccupation of New Zealand amateur astronomers with comets and meteors New Zealand astronomy has a truly rich history extending from the Maori civilization in pre European times through to the years when explorers and navigators discovered the region up to pioneering research on the newly emerging field of radio astronomy during WWII and in the immediate post war years A complete survey of a neglected but rich national astronomical history this does the subject full and comprehensive justice [Exploring the History of Southeast Asian Astronomy](#) Wayne Orchiston, Mayank N. Vahia, 2021-06-30 This edited volume contains 24 different research papers by members of the History and Heritage Working Group of the Southeast Asian Astronomy Network The chapters were prepared by astronomers from Australia France Germany India Indonesia Japan Malaysia the Philippines Scotland Sweden Thailand and Vietnam They represent the latest understanding of cultural and scientific interchange in the region over time from ethnoastronomy to archaeoastronomy and more Gathering together researchers from various locales this volume enabled new connections to be made in service of building a more holistic vision of astronomical history in Southeast Asia which boasts a proud and deep tradition [Science and Exploration in the Pacific](#) Margarette Lincoln, 1998 This volume contains studies of scientific and cultural discoveries made on Cook's 1768-7 voyage to the South Sea in Endeavour and issues emerging from this and successive Pacific voyages **Essays on Astronomical History and Heritage** Steven Gullberg, Peter Robertson, 2023-08-14 This multidisciplinary work celebrates Wayne Orchiston's career and accomplishments in historical and cultural astronomy on the occasion of his 80th birthday Over thirty of the world's leading scholars in astronomy astrophysics astronomical history and cultural astronomy have come together to honor Wayne across a wide range of research topics These themes include Astronomy and Society Emergence of Astrophysics History of Radio Astronomy Solar System Observatories and Instrumentation Ethnoastronomy and Archaeoastronomy This exceptional collection of essays presents an overview of Wayne's prolific contributions to the field along with detailed accounts of the book's diverse themes It is a valuable and insightful volume for both researchers and others interested in the fields of historical astronomy and cultural astronomy *Golden Years of Australian Radio Astronomy* Wayne Orchiston, Peter Robertson, Woodruff T. Sullivan III, 2022-01-20 The evolution of Australian radio astronomy from 1945 to 1960 has been studied in detail by numerous

historians of science in recent years This Open Access book is the first to present an overview of this remarkable chapter in Australian science The book begins in the post war period as the Radiophysics Laboratory in Sydney switched from secret wartime research on radar to peacetime applications of this new technology Next follows the detection of radio waves from space and the ensuing transformation of this fledgling science into the dominant research program at the Radiophysics Lab Drawing from this history the book shows how by 1960 the Radiophysics Lab had become the largest and most successful radio astronomy group in the world The final chapter presents an overview of Australian radio astronomy from 1960 to the present day as Australia prepares to co host the multi national multi billion dollar Square Kilometre Array Nearly 300 high quality images complement the text drawn from a wide range of sources including the extensive collection held by the CSIRO Radio Astronomy Image Archive The book will be an essential reference for readers interested in the scientific and cultural development of radio astronomy This book is published open access under a CC BY 4 0 license **Routledge Handbook of**

Critical Indigenous Studies Brendan Hokowhitu,Aileen Moreton-Robinson,Linda Tuhiwai-Smith,Chris Andersen,Steve Larkin,2020-12-30 The Routledge Handbook of Critical Indigenous Studies is the first comprehensive overview of the rapidly expanding field of Indigenous scholarship The book is ambitious in scope ranging across disciplines and national boundaries with particular reference to the lived conditions of Indigenous peoples in the first world The contributors are all themselves Indigenous scholars who provide critical understandings of indigeneity in relation to ontology ways of being epistemology ways of knowing and axiology ways of doing with a view to providing insights into how Indigenous peoples and communities engage and examine the worlds in which they are immersed Sections include Indigenous Sovereignty Indigeneity in the 21st Century Indigenous Epistemologies The Field of Indigenous Studies Global Indigeneity This handbook contributes to the re centring of Indigenous knowledges providing material and ideational analyses of social political and cultural institutions and critiquing and considering how Indigenous peoples situate themselves within outside and in relation to dominant discourses dominant postcolonial cultures and prevailing Western thought This book will be of interest to scholars with an interest in Indigenous peoples across Literature History Sociology Critical Geographies Philosophy Cultural Studies Postcolonial Studies Native Studies M ori Studies Hawaiian Studies Native American Studies Indigenous Studies Race Studies Queer Studies Politics Law and Feminism

The Emergence of Astrophysics in Asia Tsuko Nakamura,Wayne Orchiston,2017-11-03 This book examines the ways in which attitudes toward astronomy in Australia China India Indonesia Japan South Korea New Zealand Taiwan Thailand and Uzbekistan have changed with the times The emergence of astrophysics was a worldwide phenomenon during the late nineteenth and early twentieth centuries and it gradually replaced the older style positional astronomy which focused on locating and measuring the movements of the planets stars etc Here you will find national overviews that are at times followed by case studies of individual notable achievements Although the emphasis is on the developments that occurred around 1900 later pioneering efforts in Australian Chinese Indian and Japanese radio astronomy

are also included As the first book ever published on the early development of astrophysics in Asia the authors fill a chronological and technological void Though others have already written about earlier astronomical developments in Asia and about the recent history of astronomy in various Asian nations no one has examined the emergence of astrophysics the so called new astronomy in Asia during the late nineteenth and early twentieth centuries **Samuel Pepys, Isaac Newton,**

James Hodgson, and the Beginnings of Secondary School Mathematics Nerida F. Ellerton, M. A. (Ken)

Clements, 2017-03-02 This book tells one of the greatest stories in the history of school mathematics Two of the names in the title Samuel Pepys and Isaac Newton need no introduction and this book draws attention to their special contributions to the history of school mathematics According to Ellerton and Clements during the last quarter of the seventeenth century Pepys and Newton were key players in defining what school mathematics beyond arithmetic and elementary geometry might look like The scene at which most of the action occurred was Christ s Hospital which was a school ostensibly for the poor in central London The Royal Mathematical School RMS was established at Christ s Hospital in 1673 It was the less well known James Hodgson a fine mathematician and RMS master between 1709 and 1755 who demonstrated that topics such as logarithms plane and spherical trigonometry and the application of these to navigation might systematically and successfully be taught to 12 to 16 year old school children From a wider history of school education perspective this book tells how the world s first secondary school mathematics program was created and how slowly but surely what was being achieved at RMS began to influence school mathematics in other parts of Great Britain Europe and America The book has been written from the perspective of the history of school mathematics Ellerton and Clements s analyses of pertinent literature and of archival data and their interpretations of those analyses have led them to conclude that RMS was the first major school in the world to teach mathematics beyond arithmetic on a systematic basis to students aged between 12 and 16 Throughout the book Ellerton and Clements examine issues through the lens of a long time theoretical perspective From a historiographical perspective this book emphasizes how the history of RMS can be portrayed in very different ways depending on the vantage point from which the history is written The authors write from the vantage point of international developments in school mathematics education and therefore their history of RMS differs from all other histories of RMS most of which were written from the perspective of the history of Christ s Hospital **The World of Visual Time Signals for Mariners** Roger

Kinns, 2024-11-18 This book describes the worldwide evolution of land based visual time signals that were used by mariners in the nineteenth and twentieth centuries for accurate navigation at sea They followed development of chronometers which were carried in ships to show mean time at Greenwich the chosen prime meridian Greenwich time could be compared with local astronomical time to determine longitude but chronometers were mechanical devices that had to be checked for accuracy Land based signals that were regulated by astronomical observations evolved from the ideas in 1818 of Robert Wauchope a British naval officer who served at the Cape of Good Hope He inspired introduction of time balls specifically the

time ball at Greenwich in 1833 which set the standard for subsequent installations and is still in operation today The main emphasis is on the external appearance of time signals at different locations around the world and how they were used by mariners for rating chronometers Time balls and guns also became popular signals for public use and workplace control but then had social and political implications

America's First Eclipse Chasers Thomas Hockey, 2023-05-27 In 2017 over 200 million Americans witnessed the spectacular total eclipse of the Sun and the 2024 eclipse is expected to draw even larger crowds In anticipation of this upcoming event this book takes us back in history over 150 years telling the story of the nation's first ever eclipse chasers Our tale follows the chaotic journeys of scientists and amateur astronomers as they trekked across the western United States to view the rare phenomenon of a total solar eclipse The fascinating story centers on the expeditions of the 1869 total eclipse which took place during the turbulent age of the chimerical Planet Vulcan and Civil War Reconstruction The protagonists a motley crew featuring astronomical giants like Simon Newcomb and pioneering female astronomers like Maria Mitchell were met with unanticipated dangers mission threatening accidents and eccentric characters only the West could produce Theirs is a story of astronomical proportions Along the way we will make several stops across the booming US railroad network traveling from viewing sites as familiar as Des Moines Iowa to ones as distant and strange as newly acquired Alaska From equipment failures and botched preparations to quicksand and apocalyptic comets welcome to the wild western world of solar eclipses

William Dawes Richard de Grijs, Andrew Jacob, 2023-11-30 This book describes William Dawes life and professional achievements William Dawes was a British Marine serving as the official astronomer on board the First Fleet making the 1787-1788 voyage from Britain to the new colony of New South Wales Between 1788 and 1791 Dawes established not one but two observatories within a kilometre of Sydney's present day city centre a full seven decades before the construction of Sydney's historical Observatory at Dawes Point today a stone's throw from the Sydney Harbour Bridge In this comprehensive biography the authors discuss William Dawes life and his considerable impact as astronomer engineer surveyor ordnance officer and intellectual centre point on the early colony in New South Wales in essence his impact on the earliest history of Sydney as a settlement and subsequently on the British colonies of Sierra Leone on the West African coast and Antigua in the West Indies Dawes life and professional achievements are closely linked to the earliest history of Sydney as a British settlement He is often considered a man of high morals and as such his interactions with the local populations in New South Wales Sierra Leone and Antigua were mostly deemed respectful and above reproach He is seen a truly enlightened individual far ahead of his time The authors of this book have a significant track record of successful and engaging communication of complex concepts in physics and astronomy with experts and non experts alike This biography touches on numerous aspects related to 18th century maritime navigation sailing on the stars societal relationships the exploration of newly discovered lands as well as the early history of Sydney and New South Wales and the colonial histories of Sierra Leone and the West Indies As such this book will appeal to a wide range

of readers from scholars in the history of science and maritime navigation to history enthusiasts ranging from local historians on Australia's eastern seaboard to members of the public with a keen interest in British colonial history

Why We Believe Alister McGrath, 2025-01-23 Belief surely it's a relic from the past a hangover from a superstitious age that is totally out of sync with today's rational science-led culture A timely often bracing and always highly stimulating book Tom Holland author of *Dominion* and co-host of *The Rest is History* In today's science-driven rational world belief is dismissed as an artefact of a bygone era something absurd at best harmful at worst The prevailing narratives paint belief as primitive weird even dangerous But as life grows ever more confusing and our societies more atomised contemplating something bigger than ourselves has never been more vital Alister McGrath offers a fresh perspective on belief presenting it not as a weakness of rational thought but as an essential tool for navigating uncertainty Elegant and thought provoking *Why We Believe* reveals how belief provides meaning in the face of existential despair how it fosters community and offers solace As society moves beyond the dismissive rhetoric surrounding people of faith here is a powerful manifesto for the re-enchantment of the Western mind Scholarly compulsively readable and with gems of information on every page a must read Revd Fergus Butler Gallie author of *A Field Guide to the English Clergy*

Astronomy Across Cultures Helaine Selin, 2012-12-06 Astronomy Across Cultures A History of Non Western Astronomy consists of essays dealing with the astronomical knowledge and beliefs of cultures outside the United States and Europe In addition to articles surveying Islamic Chinese Native American Aboriginal Australian Polynesian Egyptian and Tibetan astronomy among others the book includes essays on Sky Tales and Why We Tell Them and Astronomy and Prehistory and Astronomy and Astrology The essays address the connections between science and culture and relate astronomical practices to the cultures which produced them Each essay is well illustrated and contains an extensive bibliography Because the geographic range is global the book fills a gap in both the history of science and in cultural studies It should find a place on the bookshelves of advanced undergraduate students graduate students and scholars as well as in libraries serving those groups

A Mythological Approach to Exploring the Origins of Chinese Civilization Shuxian Ye, 2022-08-26 Is the lion the symbol of China Or should it be the dragon or the phoenix This book makes a provocative interpretation of the Chinese ancient totems such as the bear and the owl Taking a mythological approach it explores the origin of Chinese civilization using the quadruple evidence method which integrates ancient and unearthed literature oral transmission and archeological objects and graphs It testifies to the authenticity of unresolved ancient myths and legends from the origins of Chinese Jade Ware 6200BC 5400 BC to the names of the Yellow Emperor 2698 2598 BC and the legends from the Xia 2010BC 1600BC Shang 1600BC 046BC Zhou 1046BC 771BC and Qin 221BC 206BC Dynasties The book lays the foundation for a reconstruction of Chinese Mythistory With well over 200 photographs of historic artifacts the book appeals to both researchers and general readers

[Lyric Poetry and Space Exploration from Einstein to the Present](#) Margaret Greaves, 2023-05-23 Poetry and astronomy often travel together in the political sphere from Milton's

meeting with Galileo under house arrest to NASA's practice of launching poems into space Anchored in the post war period but drawing on a long history of poetry and science *Lyric Poetry and Space Exploration from Einstein to the Present* charts the surprising connection between poetry and extra terrestrial space In an era defined by the vast scales of globalization environmental disaster and space travel poets bring the small scales of lyric intimacy to bear on cosmic immensity While outer space might seem the domain of more popular genres lyric poetry has ancient and enduring associations with cosmic inquiry that have made it central to post war space culture As the Cold War played out in space American institutions and media from NASA to Star Trek enlisted poetry to present space exploration as a peaceful mission on behalf of humankind Meanwhile poets from across the globe have turned to the cosmos to contest American imperialism challenging conventional ideas about lyric poetry in the process Poets including Elizabeth Bishop Adrienne Rich Seamus Heaney Derek Walcott Agha Shahid Ali and Tracy K Smith invoke the extra terrestrial to interrogate national histories alongside their craft Dazzled by the aesthetics of astronomy but wary of its imperial uses poets employ astronomical figures and methods to imagine how we might care for both ourselves and others on a shared planet *Exploring the Night Sky with Binoculars* Patrick Moore, 2000-10-16 Patrick Moore's painstakingly researched beautifully illustrated guide to astronomical observation for casual and serious observers *Ladies in the Laboratory III* Mary R. S. Creese, Thomas M. Creese, 2010-02-08 Published in 1998 *Ladies in the Laboratory* provided a systematic survey and comparison of the work of 19th century American and British women in scientific research A companion volume published in 2004 focused on women scientists from Western Europe In this third volume author Mary R S Creese expands her scope to include the contributions of 19th and early 20th century women of South Africa Australia New Zealand and Canada The women whose lives and work are discussed here range from natural history collectors and scientific illustrators of the early and mid years of the 19th century to the first generation of graduates of the new colonial colleges and universities Rarely acknowledged in publications of the British and European specialists the contributions of these women nonetheless formed a significant part of the natural history information about extensive previously unknown regions and their products Rather than a biographical dictionary or a collection of self contained essays on individuals from many time periods *Ladies in the Laboratory III* is a connected narrative tied into the wider framework of 19th century science and education A well organized blend of individual life stories and quantitative information this volume is for everyone interested in the story of women's participation in 19th century science The stories of these women make for fascinating reading and serve as a valuable source for the student of women's and colonial history ***The Spectator*** , 1861 *Global White Supremacy* Christopher S. Collins, Christopher B. Newman, Alexander Jun, 2023-05-12 Knowledge is more expansive than the boundaries of the Western university model and its claim to be the dominant or only rigorous house of knowledge In the former colonies of Europe e.g South Africa Brazil and Oceania the curriculum statues architectures and other aspects of the university demonstrate the way in which it is a fixture

in empire maintenance The trajectory of global White supremacy is deeply historical and contemporary it is a global transnational and imperial phenomenon White supremacy is sustained through the construction of inferiority and anti Blackness The context history and perspective offered by Collins Newman and Jun should serve as an introduction to the disruption of the ways in which university and academic dispositions have and continue to serve as sites of colonial and White supremacist preservation as well as sites of resistance

A History of Science Technology and Philosophy in the 18th Century Abraham Wolf, 2019-04-23 Published in 1938 The new volume presents a full and profusely illustrated account of progress made during the eighteenth century in Mathematics Mechanics Astronomy Physics Meteorology Geography Chemistry Biology Medicine Psychology Demography Economics Philosophy and Technology

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