

THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE

THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE: EXPLORING THE INTERSECTIONS OF KNOWLEDGE AND POWER

THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE OPENS A FASCINATING WINDOW INTO THE COMPLEX RELATIONSHIP BETWEEN SCIENTIFIC ENDEAVORS AND IMPERIAL AMBITIONS THROUGHOUT HISTORY. THIS COMPREHENSIVE VOLUME SERVES AS AN ESSENTIAL RESOURCE FOR ANYONE INTERESTED IN UNDERSTANDING HOW SCIENCE WAS NOT ONLY INFLUENCED BY EMPIRE BUT ALSO ACTIVELY SHAPED COLONIAL AND IMPERIAL PROJECTS. IT UNPACKS THE NUANCED WAYS IN WHICH SCIENTIFIC KNOWLEDGE, PRACTICES, AND INSTITUTIONS INTERSECTED WITH THE EXPANSION OF EMPIRES, REVEALING THE PROFOUND IMPACT OF THESE DYNAMICS ON BOTH COLONIZER AND COLONIZED.

UNDERSTANDING THE SCOPE OF THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE

THE HANDBOOK BRINGS TOGETHER A DIVERSE ARRAY OF SCHOLARLY PERSPECTIVES, MAKING IT A MULTIDISCIPLINARY EXPLORATION THAT SPANS HISTORY, SCIENCE STUDIES, POSTCOLONIAL THEORY, AND MORE. ITS CONTRIBUTORS DELVE INTO HOW SCIENTIFIC KNOWLEDGE WAS MOBILIZED TO SERVE IMPERIAL INTERESTS, FROM MAPPING AND CATEGORIZING NEW TERRITORIES TO CONTROLLING POPULATIONS AND EXPLOITING NATURAL RESOURCES.

THIS EXPANSIVE APPROACH HELPS READERS APPRECIATE THE OFTEN OVERLOOKED WAYS IN WHICH SCIENCE FUNCTIONED AS A TOOL OF EMPIRE-BUILDING, WHILE ALSO HIGHLIGHTING RESISTANCE AND ALTERNATIVE KNOWLEDGE SYSTEMS THAT CHALLENGED COLONIAL DOMINANCE.

WHY SCIENCE AND EMPIRE MATTER TOGETHER

AT FIRST GLANCE, SCIENCE MIGHT APPEAR NEUTRAL OR PURELY OBJECTIVE, BUT THE HANDBOOK UNDERSCORES THAT SCIENTIFIC PRACTICES HAVE BEEN DEEPLY ENTANGLED WITH POLITICAL POWER AND ECONOMIC MOTIVES. EMPIRES NEEDED SCIENTIFIC EXPERTISE TO NAVIGATE AND ADMINISTER VAST TERRITORIES, HARNESS NATURAL RESOURCES, AND JUSTIFY COLONIAL RULE THROUGH CLAIMS OF PROGRESS AND CIVILIZATION.

THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE ILLUSTRATES THAT:

- SCIENTIFIC EXPEDITIONS OFTEN DOUBLED AS IMPERIAL RECONNAISSANCE MISSIONS.
- BOTANICAL AND ZOOLOGICAL STUDIES WERE TIED TO RESOURCE EXTRACTION AND ECONOMIC EXPLOITATION.
- MEDICAL KNOWLEDGE SHAPED PUBLIC HEALTH POLICIES THAT SERVED COLONIAL POPULATIONS AND MILITARY NEEDS.
- THE CLASSIFICATION OF PEOPLE AND CULTURES WAS INSTRUMENTAL IN CONSTRUCTING RACIAL HIERARCHIES USED TO LEGITIMIZE DOMINATION.

KEY THEMES EXPLORED IN THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE

SCIENCE AS A TOOL OF IMPERIAL CONTROL

ONE OF THE CENTRAL THEMES THE HANDBOOK TACKLES IS HOW SCIENTIFIC KNOWLEDGE WAS USED TO ESTABLISH AND MAINTAIN CONTROL OVER COLONIZED SPACES. SCIENTIFIC SURVEYS, GEOLOGICAL MAPPING, AND ETHNOGRAPHIC STUDIES PROVIDED DETAILED INFORMATION THAT EMPOWERED COLONIAL ADMINISTRATORS TO GOVERN MORE EFFECTIVELY. THIS SECTION EXAMINES CASE STUDIES FROM VARIOUS EMPIRES, HIGHLIGHTING THE STRATEGIC DEPLOYMENT OF SCIENTIFIC EXPERTISE.

KNOWLEDGE PRODUCTION AND INDIGENOUS PERSPECTIVES

Importantly, the handbook does not present science as a one-way imposition. It brings to light indigenous knowledge systems and how local populations engaged with, adapted, or resisted imperial science. This dialogue between Western scientific traditions and indigenous epistemologies reveals a more complex picture of knowledge exchange, contestation, and hybridity.

SCIENCE, TECHNOLOGY, AND IMPERIAL INFRASTRUCTURE

Technological innovations were vital to empire-building. Railways, telegraphs, and irrigation projects were often justified through scientific rationales and served to integrate colonies into global imperial networks. The Routledge Handbook of Science and Empire explores how technology facilitated economic exploitation and political control, while also transforming local environments and societies.

CONTRIBUTORS AND SCHOLARLY APPROACH

What makes The Routledge Handbook of Science and Empire particularly valuable is its editorial vision and the caliber of its contributors. The editors bring together historians of science, anthropologists, and scholars of postcolonial studies, ensuring a rich diversity of voices and methodologies.

Each chapter is meticulously researched, often drawing on archival materials, colonial records, and firsthand accounts, which lends the handbook both academic rigor and narrative engagement. This makes it not just a reference book but also a compelling reading experience for students, researchers, and general readers with an interest in history and science.

INTERDISCIPLINARY INSIGHTS

The interdisciplinary nature of the handbook encourages readers to think beyond traditional boundaries. By weaving together scientific history with imperial studies, it prompts critical reflection on how knowledge systems are embedded in power relations. This is especially relevant in contemporary discussions about decolonizing science and re-examining the legacies of empire in knowledge production today.

HOW THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE ENHANCES ACADEMIC AND PUBLIC UNDERSTANDING

Whether you are a historian, a scientist, or simply curious about the dynamics of knowledge and power, this handbook offers valuable insights. It challenges simplistic narratives about science as pure progress and instead presents a more nuanced view that acknowledges its complicity in imperial projects.

USEFUL FOR EDUCATORS AND RESEARCHERS

For educators, the handbook provides a rich source of case studies and theoretical frameworks that can be integrated into curricula on the history of science, colonial studies, or global history. Researchers will find it a treasure trove of references and conceptual tools for further inquiry into the entanglements of science and empire.

ENCOURAGES CRITICAL THINKING ABOUT SCIENCE TODAY

BEYOND HISTORICAL INTEREST, THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE INVITES READERS TO CONSIDER HOW THE LEGACIES OF IMPERIAL SCIENCE CONTINUE TO SHAPE CONTEMPORARY SCIENTIFIC PRACTICES AND GLOBAL INEQUALITIES. IT FOSTERS CRITICAL AWARENESS ABOUT WHOSE KNOWLEDGE COUNTS AND HOW POWER INFLUENCES WHAT IS CONSIDERED SCIENTIFIC TRUTH.

EXPLORING KEY CASE STUDIES WITHIN THE HANDBOOK

SEVERAL CHAPTERS FOCUS ON PIVOTAL MOMENTS AND REGIONS THAT ILLUSTRATE THE HANDBOOK'S THEMES VIVIDLY. FOR INSTANCE, THE ROLE OF BOTANICAL GARDENS IN THE CARIBBEAN AND INDIA IS EXAMINED NOT JUST AS SITES OF SCIENTIFIC STUDY BUT AS INSTRUMENTS OF COLONIAL ECONOMIC POLICY. SIMILARLY, DISCUSSIONS ON MEDICAL SCIENCE TRACE HOW TROPICAL MEDICINE EMERGED FROM IMPERIAL HEALTH CONCERNS BUT ALSO CONTRIBUTED TO GLOBAL PUBLIC HEALTH PARADIGMS.

MAPPING AND CARTOGRAPHY IN EMPIRE

MAPS WERE MORE THAN JUST NAVIGATIONAL TOOLS; THEY WERE INSTRUMENTS OF IMPERIAL IMAGINATION AND CONTROL. THE HANDBOOK DELVES INTO CARTOGRAPHIC PRACTICES, SHOWING HOW MAPS SHAPED PERCEPTIONS OF COLONIZED LANDS AND PEOPLES, ENABLING MILITARY CONQUEST AND RESOURCE EXTRACTION.

SCIENCE AND RACE IN IMPERIAL CONTEXTS

THE PROBLEMATIC INTERSECTION OF SCIENTIFIC RACISM AND EMPIRE IS ADDRESSED WITH NUANCE. CONTRIBUTORS ANALYZE HOW SCIENTIFIC CLASSIFICATIONS OF RACE WERE USED TO JUSTIFY UNEQUAL TREATMENT AND HOW THESE IDEAS PERMEATED BOTH COLONIAL GOVERNANCE AND METROPOLITAN SOCIETIES.

INTEGRATING THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE INTO YOUR RESEARCH OR STUDY

IF YOU'RE PLANNING TO DIVE INTO THE HISTORY OF SCIENCE, IMPERIALISM, OR POSTCOLONIAL STUDIES, THIS HANDBOOK IS A MUST-HAVE. TO MAKE THE MOST OF IT:

- APPROACH CHAPTERS THEMATICALLY TO UNDERSTAND SPECIFIC INTERSECTIONS LIKE SCIENCE AND MEDICINE OR TECHNOLOGY AND INFRASTRUCTURE.
- USE THE EXTENSIVE BIBLIOGRAPHIES FOR FURTHER READING AND PRIMARY SOURCES.
- INCORPORATE ITS CRITICAL PERSPECTIVES INTO YOUR OWN ANALYSIS OF HOW SCIENCE OPERATES WITHIN POWER STRUCTURES.
- REFLECT ON THE CONTEMPORARY RELEVANCE OF HISTORICAL CASE STUDIES TO ONGOING DEBATES ABOUT SCIENCE AND GLOBAL INEQUALITY.

THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE IS MORE THAN AN ACADEMIC TEXT; IT IS A VITAL CONVERSATION STARTER ABOUT THE PAST AND PRESENT OF SCIENCE IN A WORLD SHAPED BY IMPERIAL HISTORIES. WHETHER YOU ARE A SEASONED SCHOLAR OR A CURIOUS READER, IT OFFERS DEEP INSIGHTS INTO THE ENTANGLED LEGACIES OF KNOWLEDGE AND EMPIRE THAT

CONTINUE TO INFLUENCE OUR WORLD TODAY.

FREQUENTLY ASKED QUESTIONS

WHAT IS 'THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE' ABOUT?

IT IS A COMPREHENSIVE COLLECTION OF ESSAYS THAT EXPLORE THE COMPLEX RELATIONSHIPS BETWEEN SCIENCE AND IMPERIALISM, EXAMINING HOW SCIENTIFIC PRACTICES AND KNOWLEDGE WERE INTERTWINED WITH THE EXPANSION AND ADMINISTRATION OF EMPIRES.

WHO ARE THE EDITORS OF 'THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE'?

THE HANDBOOK IS EDITED BY EXPERTS IN THE HISTORY OF SCIENCE AND EMPIRE, TYPICALLY INCLUDING SCHOLARS LIKE CONSTANCE DEVEREAUX, JIM ENDERSBY, AND OTHERS WHO SPECIALIZE IN THE INTERSECTIONS OF SCIENCE, COLONIALISM, AND EMPIRE.

WHAT TIME PERIODS DOES 'THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE' COVER?

THE HANDBOOK COVERS A BROAD HISTORICAL RANGE, FROM THE EARLY MODERN PERIOD THROUGH THE 20TH CENTURY, ADDRESSING HOW SCIENCE FUNCTIONED WITHIN DIFFERENT IMPERIAL CONTEXTS ACROSS VARIOUS TIMES.

HOW DOES 'THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE' CONTRIBUTE TO THE STUDY OF POSTCOLONIAL SCIENCE?

IT PROVIDES CRITICAL INSIGHTS INTO HOW SCIENTIFIC KNOWLEDGE WAS USED TO JUSTIFY AND MAINTAIN IMPERIAL CONTROL, AND HOW POSTCOLONIAL PERSPECTIVES CAN REINTERPRET THESE HISTORIES TO UNDERSTAND THE LEGACY OF EMPIRE IN CONTEMPORARY SCIENCE.

CAN 'THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE' BE USED AS A TEXTBOOK FOR ACADEMIC COURSES?

YES, IT IS WIDELY USED IN UNIVERSITY COURSES ON HISTORY OF SCIENCE, COLONIAL STUDIES, AND IMPERIAL HISTORY DUE TO ITS COMPREHENSIVE COVERAGE AND CONTRIBUTIONS FROM LEADING SCHOLARS IN THE FIELD.

DOES 'THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE' INCLUDE GLOBAL PERSPECTIVES?

YES, THE HANDBOOK INCLUDES ESSAYS THAT ADDRESS SCIENTIFIC PRACTICES AND IMPERIAL DYNAMICS IN VARIOUS REGIONS INCLUDING AFRICA, ASIA, THE AMERICAS, AND OCEANIA, OFFERING A DIVERSE AND GLOBAL PERSPECTIVE ON SCIENCE AND EMPIRE.

ADDITIONAL RESOURCES

THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE: AN IN-DEPTH REVIEW AND ANALYSIS

THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE STANDS AS A PIVOTAL SCHOLARLY RESOURCE THAT INTERROGATES THE COMPLEX INTERSECTIONS BETWEEN SCIENTIFIC KNOWLEDGE PRODUCTION AND IMPERIAL POWER STRUCTURES. THIS COMPREHENSIVE VOLUME, EDITED BY SCHOLARS WHO SPECIALIZE IN THE HISTORY OF SCIENCE, COLONIAL STUDIES, AND GLOBAL IMPERIALISM, OFFERS AN EXPANSIVE EXPLORATION OF HOW SCIENCE WAS NOT MERELY A NEUTRAL PURSUIT OF KNOWLEDGE BUT OFTEN AN INSTRUMENT OF EMPIRE-BUILDING AND COLONIAL DOMINANCE. FOR ACADEMICS, STUDENTS, AND PROFESSIONALS

INTERESTED IN THE NUANCED RELATIONSHIPS BETWEEN SCIENCE AND EMPIRE, THIS HANDBOOK PROVIDES AN INDISPENSABLE, MULTIFACETED PERSPECTIVE.

EXPLORING THE SCOPE AND STRUCTURE OF THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE

AT ITS CORE, THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE FUNCTIONS AS A CRITICAL ANTHOLOGY THAT MAPS THE HISTORICAL, SOCIOPOLITICAL, AND CULTURAL DIMENSIONS OF SCIENTIFIC PRACTICES WITHIN IMPERIAL CONTEXTS. UNLIKE TRADITIONAL SCIENTIFIC HISTORIES THAT FOCUS NARROWLY ON DISCOVERIES AND INNOVATIONS, THIS HANDBOOK ADOPTS A BROADER ANALYTICAL LENS, EMPHASIZING HOW SCIENTIFIC ENDEAVORS WERE EMBEDDED WITHIN COLONIAL ADMINISTRATIONS, ECONOMIC INTERESTS, AND RACIAL IDEOLOGIES.

THE VOLUME IS ORGANIZED THEMATICALLY AND REGIONALLY, OFFERING READERS A SYSTEMATIC EXPLORATION OF DIVERSE IMPERIAL SETTINGS—FROM THE BRITISH AND FRENCH EMPIRES TO LESSER-STUDIED COLONIAL POWERS SUCH AS THE DUTCH AND PORTUGUESE. THIS STRUCTURAL APPROACH ALLOWS FOR COMPARATIVE ANALYSES THAT REVEAL PATTERNS OF KNOWLEDGE PRODUCTION ACROSS DIFFERENT EMPIRES WHILE ALSO RECOGNIZING UNIQUE LOCAL DYNAMICS.

KEY THEMES AND CONTRIBUTIONS

ONE OF THE STANDOUT FEATURES OF THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE IS ITS ENGAGEMENT WITH THE CONCEPT OF “SCIENTIFIC IMPERIALISM,” WHERE THE ACQUISITION AND CLASSIFICATION OF KNOWLEDGE ABOUT COLONIZED TERRITORIES SERVED TO LEGITIMIZE AND FACILITATE IMPERIAL CONTROL. CONTRIBUTORS EXAMINE HOW DISCIPLINES SUCH AS BOTANY, ANTHROPOLOGY, GEOLOGY, AND MEDICINE WERE MOBILIZED TO SUPPORT COLONIAL AGENDAS, OFTEN REINFORCING RACIAL HIERARCHIES AND ECONOMIC EXPLOITATION.

THE HANDBOOK ALSO ADDRESSES THE ROLE OF INDIGENOUS KNOWLEDGE SYSTEMS AND THE OFTEN-OVERLOOKED INTERACTIONS BETWEEN EUROPEAN SCIENTISTS AND LOCAL EXPERTS. THIS INCLUSION CHALLENGES EARLIER EUROCENTRIC NARRATIVES BY ACKNOWLEDGING THE HYBRID AND CONTESTED NATURE OF KNOWLEDGE PRODUCTION DURING THE IMPERIAL ERA.

MOREOVER, THE VOLUME CONFRONTS THE ETHICAL AND EPISTEMOLOGICAL IMPLICATIONS OF SCIENCE UNDER EMPIRE, PROMPTING READERS TO RECONSIDER THE LEGACIES OF COLONIAL SCIENCE IN CONTEMPORARY KNOWLEDGE PRACTICES AND GLOBAL INEQUALITIES.

CRITICAL INSIGHTS INTO SCIENCE’S ROLE IN IMPERIAL EXPANSION

THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE EXCELS IN CONTEXTUALIZING SCIENTIFIC ACTIVITIES WITHIN IMPERIAL EXPANSION, DEMONSTRATING THAT SCIENCE WAS BOTH A TOOL AND A TERRAIN OF EMPIRE. SCIENTIFIC EXPEDITIONS, FOR INSTANCE, WERE NOT ONLY EXPLORATORY MISSIONS BUT ALSO MECHANISMS FOR RESOURCE EXTRACTION, TERRITORIAL MAPPING, AND STRATEGIC CONTROL.

THE INTERSECTION OF SCIENCE AND COLONIAL GOVERNANCE

ONE IMPORTANT SUBTOPIC EXPLORED IS THE INTEGRATION OF SCIENTIFIC KNOWLEDGE INTO COLONIAL GOVERNANCE STRUCTURES. THE HANDBOOK ILLUSTRATES HOW SCIENTIFIC DATA INFORMED POLICIES ON LAND USE, AGRICULTURE, PUBLIC HEALTH, AND RESOURCE MANAGEMENT. FOR EXAMPLE, SURVEYS OF FLORA AND FAUNA OFTEN TRANSLATED INTO AGRICULTURAL REFORMS OR COMMERCIAL EXPLOITATION THAT SHAPED THE ECONOMIC FOUNDATIONS OF COLONIAL RULE.

IN ADDITION, MEDICAL SCIENCE PLAYED A DUAL ROLE—ADDRESSING HEALTH CRISES AMONG COLONIZERS WHILE SIMULTANEOUSLY EXPERIMENTING ON AND CONTROLLING INDIGENOUS POPULATIONS. THIS DUALITY HIGHLIGHTS THE AMBIVALENT NATURE OF SCIENTIFIC INTERVENTIONS UNDER EMPIRE.

SCIENCE, RACE, AND IDENTITY CONSTRUCTION

ANOTHER CRITICAL DIMENSION IS THE RELATIONSHIP BETWEEN SCIENCE AND RACIAL IDEOLOGIES. THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE PROVIDES DETAILED ANALYSES OF HOW SCIENTIFIC THEORIES OF RACE WERE DEVELOPED AND EMPLOYED TO JUSTIFY IMPERIAL HIERARCHIES AND SEGREGATIONIST PRACTICES. ANTHROPOLOGY AND PHYSICAL SCIENCES WERE FREQUENTLY COMPLICIT IN CONSTRUCTING RACIAL CATEGORIES THAT PERPETUATED STEREOTYPES AND LEGITIMIZED DOMINATION.

FURTHERMORE, THE VOLUME EXPLORES RESISTANCE AND CONTESTATION BY COLONIZED PEOPLES, REVEALING HOW INDIGENOUS ACTORS NEGOTIATED, SUBVERTED, OR APPROPRIATED SCIENTIFIC DISCOURSES TO ASSERT THEIR AGENCY AND IDENTITIES.

COMPARATIVE PERSPECTIVES AND REGIONAL CASE STUDIES

THE HANDBOOK'S INCLUSION OF DIVERSE REGIONAL CASE STUDIES ENRICHES ITS ANALYTICAL DEPTH. BY EXAMINING DIFFERENT IMPERIAL CONTEXTS, IT UNDERSCORES HOW THE RELATIONSHIPS BETWEEN SCIENCE AND EMPIRE WERE SHAPED BY SPECIFIC POLITICAL, CULTURAL, AND ECOLOGICAL CONDITIONS.

- **BRITISH EMPIRE:** THE VOLUME HIGHLIGHTS THE ROLE OF INSTITUTIONS LIKE THE ROYAL BOTANICAL GARDENS AT KEW AND SCIENTIFIC SOCIETIES IN SHAPING COLONIAL KNOWLEDGE NETWORKS.
- **FRENCH EMPIRE:** IT FOCUSES ON SCIENTIFIC MISSIONS IN NORTH AFRICA AND INDOCHINA, EMPHASIZING THE ENTWINED NATURE OF SCIENCE AND ASSIMILATIONIST POLICIES.
- **DUTCH AND PORTUGUESE EMPIRES:** THESE SECTIONS SHED LIGHT ON LESS-STUDIED COLONIAL POWERS, REVEALING ALTERNATIVE MODELS OF SCIENTIFIC ENGAGEMENT AND IMPERIAL GOVERNANCE.

SUCH COMPARATIVE ANALYSIS NOT ONLY BROADENS THE SCOPE OF INQUIRY BUT ALSO INVITES READERS TO THINK CRITICALLY ABOUT DOMINANT HISTORIOGRAPHIES AND THE GLOBAL CIRCULATION OF SCIENTIFIC IDEAS.

INTERDISCIPLINARY METHODOLOGIES

THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE IS NOTEWORTHY FOR ITS COMMITMENT TO INTERDISCIPLINARY APPROACHES. DRAWING FROM HISTORY, ANTHROPOLOGY, SOCIOLOGY, AND SCIENCE AND TECHNOLOGY STUDIES (STS), CONTRIBUTORS EMPLOY DIVERSE METHODOLOGIES TO DISSECT THE ENTANGLEMENTS OF SCIENCE AND IMPERIALISM.

THIS INTERDISCIPLINARITY ENHANCES THE HANDBOOK'S APPEAL BEYOND HISTORIANS OF SCIENCE, MAKING IT RELEVANT TO SCHOLARS IN POSTCOLONIAL STUDIES, POLITICAL SCIENCE, AND CULTURAL STUDIES. THE VOLUME ALSO ENCOURAGES METHODOLOGICAL REFLEXIVITY, URGING RESEARCHERS TO CONSIDER THEIR OWN POSITIONALITIES WHEN STUDYING THE LEGACIES OF IMPERIAL SCIENCE.

EVALUATING THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE: STRENGTHS AND LIMITATIONS

FROM AN ACADEMIC STANDPOINT, THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE STANDS OUT FOR ITS COMPREHENSIVE COVERAGE AND CRITICAL ENGAGEMENT WITH COMPLEX THEMES. ITS STRENGTHS INCLUDE:

- **DEPTH AND BREADTH:** THE VOLUME BALANCES DETAILED CASE STUDIES WITH OVERARCHING THEORETICAL FRAMEWORKS, PROVIDING A HOLISTIC UNDERSTANDING OF SCIENCE AND EMPIRE.

- **DIVERSITY OF PERSPECTIVES:** CONTRIBUTIONS FROM SCHOLARS OF DIFFERENT BACKGROUNDS AND DISCIPLINES ENRICH THE ANALYSIS AND CHALLENGE MONOLITHIC NARRATIVES.
- **CRITICAL REFLEXIVITY:** THE HANDBOOK DOES NOT SHY AWAY FROM INTERROGATING THE ETHICAL DIMENSIONS AND CONTEMPORARY RAMIFICATIONS OF COLONIAL SCIENCE.

HOWEVER, CERTAIN LIMITATIONS EMERGE AS WELL. THE SHEER SCOPE CAN MAKE THE VOLUME DENSE AND CHALLENGING FOR READERS UNFAMILIAR WITH THE SUBJECT. ADDITIONALLY, WHILE REGIONAL DIVERSITY IS A HIGHLIGHT, SOME REGIONS, SUCH AS LATIN AMERICA AND PARTS OF ASIA, RECEIVE COMPARATIVELY LESS ATTENTION, POTENTIALLY LIMITING THE GLOBAL COMPREHENSIVENESS OF THE WORK.

PRACTICAL VALUE FOR RESEARCHERS AND EDUCATORS

FOR RESEARCHERS, THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE SERVES AS A CRUCIAL REFERENCE POINT FOR FURTHER STUDIES ON COLONIAL SCIENCE AND ITS AFTERMATH. ITS ANNOTATED BIBLIOGRAPHIES AND CROSS-REFERENCED CHAPTERS FACILITATE DEEP DIVES INTO SPECIALIZED TOPICS.

EDUCATORS CAN ALSO LEVERAGE THIS HANDBOOK TO DESIGN COURSES ON THE HISTORY OF SCIENCE, EMPIRE, OR GLOBAL KNOWLEDGE SYSTEMS. ITS ACCESSIBLE YET SCHOLARLY PROSE MAKES IT SUITABLE FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS.

IN THE CONTEXT OF ONGOING DEBATES ABOUT DECOLONIZING SCIENCE AND KNOWLEDGE INSTITUTIONS, THIS HANDBOOK OFFERS VALUABLE HISTORICAL INSIGHTS THAT INFORM CONTEMPORARY POLICY AND ACADEMIC REFORM EFFORTS.

THE ROUTLEDGE HANDBOOK OF SCIENCE AND EMPIRE ULTIMATELY CHALLENGES READERS TO RETHINK THE SEEMINGLY OBJECTIVE NATURE OF SCIENCE BY PLACING IT WITHIN THE FRAUGHT HISTORIES OF EMPIRE AND COLONIALISM. THROUGH ITS METICULOUS SCHOLARSHIP AND BROAD ANALYTICAL REACH, IT REMAINS A CORNERSTONE TEXT IN UNDERSTANDING HOW KNOWLEDGE AND POWER HAVE BEEN HISTORICALLY INTERTWINED ON A GLOBAL SCALE.

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the routledge handbook of science and empire: The Routledge Handbook of Science and Empire Andrew Goss, 2021-07-05 The Routledge Handbook of Science and Empire introduces readers to important new research in the field of science and empire. This compilation of inquiry into the inextricably intertwined history of science and empire reframes the field, showing that one could not have grown without the other. The volume expands the history of science through careful attention to connections, exchanges, and networks beyond the scientific institutions of Europe and the United States. These 27 original essays by established scholars and new talent examine: scientific and imperial disciplines, networks of science, scientific practice within empires, and decolonised science. The chapters cover a wide range of disciplines, from anthropology and psychiatry to biology and geology. There is global coverage, with essays about China, Southeast Asia, the Pacific, Australia and New Zealand, India, the Middle East, Russia, the Arctic, and North

and South America. Specialised essays cover Jesuit science, natural history collecting, energy systems, and science in UNESCO. With authoritative chapters by leading scholars, this is a guiding resource for all scholars of empire and science. Free of jargon and with clearly written essays, the handbook is a valuable path to further inquiry for any student of the history of science and empire.

the routledge handbook of science and empire: Routledge Handbook of Science, Technology, and Society Daniel Lee Kleinman, Kelly Moore, 2014-06-05 Over the last decade or so, the field of science and technology studies (STS) has become an intellectually dynamic interdisciplinary arena. Concepts, methods, and theoretical perspectives are being drawn both from long-established and relatively young disciplines. From its origins in philosophical and political debates about the creation and use of scientific knowledge, STS has become a wide and deep space for the consideration of the place of science and technology in the world, past and present. The Routledge Handbook of Science, Technology and Society seeks to capture the dynamism and breadth of the field by presenting work that pushes the reader to think about science and technology and their intersections with social life in new ways. The interdisciplinary contributions by international experts in this handbook are organized around six topic areas: embodiment consuming technoscience digitization environments science as work rules and standards This volume highlights a range of theoretical and empirical approaches to some of the persistent - and new - questions in the field. It will be useful for students and scholars throughout the social sciences and humanities, including in science and technology studies, history, geography, critical race studies, sociology, communications, women's and gender studies, anthropology, and political science.

the routledge handbook of science and empire: The Routledge Handbook of the Political Economy of Science David Tyfield, Rebecca Lave, Samuel Randalls, Charles Thorpe, 2017-04-28 The political economy of research and innovation (R&I) is one of the central issues of the early twenty-first century. 'Science' and 'innovation' are increasingly tasked with driving and reshaping a troubled global economy while also tackling multiple, overlapping global challenges, such as climate change or food security, global pandemics or energy security. But responding to these demands is made more complicated because R&I themselves are changing. Today, new global patterns of R&I are transforming the very structures, institutions and processes of science and innovation, and with it their claims about desirable futures. Our understanding of R&I needs to change accordingly. Responding to this new urgency and uncertainty, this handbook presents a pioneering selection of the growing body of literature that has emerged in recent years at the intersection of science and technology studies and political economy. The central task for this research has been to expose important but consequential misconceptions about the political economy of R&I and to build more insightful approaches. This volume therefore explores the complex interrelations between R&I (both in general and in specific fields) and political economies across a number of key dimensions from health to environment, and universities to the military. The Routledge Handbook of the Political Economy of Science offers a unique collection of texts across a range of issues in this burgeoning and important field from a global selection of top scholars. The handbook is essential reading for students interested in the political economy of science, technology and innovation. It also presents succinct and insightful summaries of the state of the art for more advanced scholars.

the routledge handbook of science and empire: The Routledge Handbook of Transregional Studies Matthias Middell, 2018-11-08 The Routledge Handbook of Transregional Studies brings together the various fields within which transregional phenomena are scientifically observed and analysed. This handbook presents the theoretical and methodological potential of such studies for the advancement of the conceptualization of global and area-bound developments. Following three decades of intense debate about globalization and transnationalism, it has become clear that border-crossing connections and interactions between societies are highly important, yet not all extend beyond the borders of nation-states or are of truly world-wide reach. The product of extensive international and interdisciplinary cooperation, this handbook is divided into ten sections that introduce the wide variety of topics within transregional studies, including Colonialism and

Post-Colonial Studies, Spatial Formats, International Organizations, Religions and Religious Movements, and Transregional Studies and Narratives of Globalization. Recognizing that transregional studies asks about the space-making and space-formatting character of connections as well as the empirical status of such connections under the global condition, the volume reaches beyond the typical confines of area and regional studies to consider how areas are transcended and transformed more widely. Combining case studies with both theoretical and methodological considerations, *The Routledge Handbook of Transregional Studies* provides the first overview of the currently flourishing field of transregional studies and is the ideal volume for students and scholars of this diverse subject and its related fields. The Open Access version of this book, available at <http://www.taylorfrancis.com>, has been made available under a Creative Commons [Attribution-Non Commercial-No Derivatives (CC-BY-NC-ND)] 4.0 license.

the routledge handbook of science and empire: *The Cambridge Companion to John Herschel* Stephen Case, Lukas M. Verburgt, 2024-05-02 It has been said that being scientific in Victorian England meant to be as much like John Herschel as possible. This volume shows readers what it meant to be John Herschel (1792-1871), one of England's most prominent polymaths. Drawing on his published oeuvre and recent scholarship, as well as an immense amount of surviving archival material and correspondence, these essays present the first ever comprehensive account of Herschel's life, work, and legacy. From mathematics and astronomy, to philosophy and politics, the volume sheds new light on his crucial role in the history of Victorian science and explores a wide array of issues in the history of nineteenth-century culture, philosophy, mathematics, and beyond.

the routledge handbook of science and empire: *Meteorology in Nineteenth-Century Society* Aitor Anduaga, 2025-10-20 This four-volume set of thematically focused and curated primary sources examines meteorology in nineteenth-century society. Knowing the history of meteorology and climatology since their inception as physical sciences in the nineteenth century is fundamental to understanding the causes and historical patterns of the severe weather and climate change that greatly preoccupy today's society. Thematically focused collections of primary sources support the research and study needs not only of scholars, but also graduate and postgraduate students. To this end, the volumes contextualize and explain the contents of these sources. The collection brings together the most relevant themes in current scholarship: weather forecasting and nation-state building; cyclones, trade, and navigation; meteorology and religion; and weather, climate, and empire.

the routledge handbook of science and empire: *Research Handbook on the Sociology of Knowledge* Fran Collyer, 2025-07-15 This timely Handbook celebrates and contributes to the recent revitalisation of the sociology of knowledge. A diverse group of leading experts from the global North and South provide a state of the art overview of a field, which is developing rapidly with the growth of poststructuralist, postcolonial, and feminist approaches.

the routledge handbook of science and empire: *José Celestino Mutis and Newtonianism in New Granada, 1762-1808* Sebastián Molina-Betancur, 2023-06-17 This book presents the process of circulation and adoption of Newtonianism in the Viceroyalty of New Granada (modern-day Colombia) in the eighteenth century by examining José Celestino Mutis's lectures at the Colegio del Rosario between the 1760s and 1770s. Mostly famous for his botanical activities as director of the botanical expedition, Mutis lectured the first course of mathematics ever created in New Granada on his arrival in Bogota in 1762, in which he included several lectures on physics that encompassed multiple aspects of his interpretation of Newton's experimental physics.

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collection vehicle to showcase the 'glory' of the Dutch colonial empire became a useful surveying tool for the Indies government. This volume is the first detailed study of the Commissie in English. It tells the story of naturalists from the Netherlands, France, and German-speaking lands and of countless indigenous people working alongside the Commissie as knowledge brokers, hunters, preparators, and porters. This long overlooked indigenous contribution to European knowledge was both substantial and fundamental.

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Among this group were those such as the Pacific traveler Archibald Menzies and the circumnavigator of Australia, Robert Brown, who are known primarily as botanists rather than as ethnographers. Together they formed a global network of colonial travelers and natural historians sharing a common educational background and a growing interest in race.

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