



MAKING MODERN SCIENCE

A HISTORICAL SURVEY

SECOND EDITION

PETER J. BOWLER
AND IWAN RHYS MORUS

Making Modern Science

Paolo Rossi



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This volume brings together the people events and discoveries of 19th century science into a lively narrative It places particular emphasis on the new forms in which scientists communicated with the public in the context of increasing urbanization globalization and industrialization *The Making of Modern Science* David Knight, 2013-04-26

Of all the inventions of the nineteenth century the scientist is one of the most striking In revolutionary France the science student taught by men active in research was born and a generation later the graduate student doing a PhD emerged in Germany In 1833 the word scientist was coined forty years later science increasingly specialised was becoming a profession Men of science rivalled clerics and critics as sages they were honoured as national treasures and buried in state funerals Their new ideas invigorated the life of the mind Peripatetic congresses great exhibitions museums technical colleges and laboratories blossomed and new industries based on chemistry and electricity brought prosperity and power economic and military Eighteenth century steam engines preceded understanding of the physics underlying them but electric telegraphs and motors were applied science based upon painstaking interpretation of nature The ideas discoveries and inventions of scientists transformed the world lives were longer and healthier cities and empires grew societies became urban rather than agrarian the local became global And by the opening years of the twentieth century science was spreading beyond Europe and North America and women were beginning to be visible in the ranks of scientists Bringing together the people events

and discoveries of this exciting period into a lively narrative this book will be essential reading both for students of the history of science and for anyone interested in the foundations of the world as we know it today

The Birth of Modern Science Paolo Rossi, 2001-06-08 This history of the birth of modern science shatters the illusion that science is dry and divorced from culture by exploring the powerful clashes between traditions and value systems that gave rise to it The author shows how many of the characteristics that distinguish science today emerged in the midst of the wars and plagues of the seventeenth century and defines what was new about this form of knowledge

Music and the Making of Modern Science Peter Pesic, 2022-09-13 A wide ranging exploration of how music has influenced science through the ages from fifteenth century cosmology to twentieth century string theory In the natural science of ancient Greece music formed the meeting place between numbers and perception for the next two millennia Pesic tells us in Music and the Making of Modern Science liberal education connected music with arithmetic geometry and astronomy within a fourfold study the quadrivium Peter Pesic argues provocatively that music has had a formative effect on the development of modern science that music has been not just a charming accompaniment to thought but a conceptual force in its own right Pesic explores a series of episodes in which music influenced science moments in which prior developments in music arguably affected subsequent aspects of natural science He describes encounters between harmony and fifteenth century cosmological controversies between musical initiatives and irrational numbers between vibrating bodies and the emergent electromagnetism He offers lively accounts of how Newton applied the musical scale to define the colors in the spectrum how Euler and others applied musical ideas to develop the wave theory of light and how a harmonium prepared Max Planck to find a quantum theory that reengaged the mathematics of vibration Taken together these cases document the peculiar power of music its autonomous force as a stream of experience capable of stimulating insights different from those mediated by the verbal and the visual An innovative e book edition available for iOS devices will allow sound examples to be played by a touch and shows the score in a moving line

Multicivilizational Exchanges in the Making of Modern Science Arun Bala, Raymond W. K. Lau, Jianjun Mei, 2024-09-09 This book explores how and why exchanges across civilizations have come to enrich science today The dialogical dimension of the history of science has long been marginalized by an excessive concern on why modern science emerged in Europe but not in any of the advanced civilizations of the East This focus upon what has been called Joseph Needham s Grand Comparative Question ignores his other project focused on showing how dialogues between civilizations have nurtured science Needham s Grand Dialogical Question if we may call it that by parity has directly or indirectly inspired a vast body of literature showing how interconnections of civilizations over the last three thousand years and exchanges of cosmological mathematical geographical physical biological and medical technologies techniques practices and knowledge have been woven together to produce current science Bringing together scholars whose research range across multiple civilizations and disciplines this book investigates the scope and limits of Needham s dialogical vision for

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