

Music and the Making of Modern Science

Peter Pesic



Music And The Making Of Modern Science

Floris Cohen

Music And The Making Of Modern Science:

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

Educational Research and Innovation

Developing Minds in the Digital Age Towards a Science of Learning for 21st Century Education Kuhl Patricia K.,Lim Soo-Siang,Guerriero Sonia, Van Damme Dirk,2019-04-10 This book highlights new scientific research about how people learn including interdisciplinary perspectives from neuroscience the social cognitive and behavioural sciences education computer and information sciences artificial intelligence machine learning and engineering

How Modern Science Came into the World

Floris Cohen,2025-10-01 Once upon a time The Scientific Revolution of the 17th century was an innovative concept that inspired a stimulating narrative of how modern science came into the world Half a century later what we now know as the master narrative serves rather as a strait jacket so often events and contexts just fail to fit in No attempt has been made so far to replace the master narrative H Floris Cohen now comes up with precisely such a replacement Key to his path breaking analysis cum narrative is a vision of the Scientific Revolution as made up of six distinct yet narrowly interconnected revolutionary transformations each of some twenty five to thirty years duration This vision enables him to explain how modern science could come about in Europe rather than in Greece China or the Islamic world It also enables him to explain how half way into the 17th century a vast crisis of legitimacy could arise and in the end be overcome Building forth on his earlier The Scientific Revolution A Historiographical Inquiry 1994 his new book takes the latest researches duly into account while connecting these in highly innovative ways It is meant throughout as a constructive effort to break up all too deeply

frozen patterns of thinking about the history of science *The Cambridge History of Seventeenth-Century Music* Tim Carter, John Butt, 2005-12-22 The Cambridge History of Seventeenth Century Music seeks to provide the most up to date knowledge on seventeenth century music together with a vital questioning of the way in which such a history can be told or put together for our present purposes Written by a distinguished team of experts in the field the chapters not only address traditional areas of knowledge such as opera and church music but also look at the way this extremely diverse and dynamic musical world has been categorised in the past and how its products are viewed from various cultural points of view While this history does not depart entirely from the traditional study of musical works and their composers there is a strong emphasis on the institutions cultures and politics of the age together with an interrogation of the ways in which music related to contemporary arts sciences and beliefs *Reader's Guide to the History of Science* Arne Hessenbruch, 2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn **Rhythmic Oscillations in Proteins to Human Cognition** Anirban Bandyopadhyay, Kanad Ray, 2020-10-29 This book explores various aspects of biophysics from neurobiology to quantum biology and the consciousness of human beings and in the universe It examines eight different areas of natural intelligence ranging from time crystals found in chemical biology to the vibrations and the resonance of proteins and also discusses hierarchical communication in various biological systems Written by senior and experts in the field in language that is lucid and easy to understand it is a valuable reference resource for researchers and practitioners in academia and industry **The British National Bibliography** Arthur James Wells, 2009 Music and Poetry Sidney Lanier, 1898 *Author - Title Catalog* University of California, Berkeley. Library, 1963 *English Mechanic and World of Science*, 1878 **Current Science**, 1938 **The Building News and Engineering Journal**, 1884 **Modern Music and Musicians: The pianist's guide. Preface ; The world's one hundred greatest piano pieces ; Famous pianists ; The leading methods of piano playing ; Special points of piano technics ; Hints to piano students ; Musical theory ; The orchestra and the art of conducting ; Special articles ; A history of music ; Stories of the opera[s] ; Stories of modern operas**, 1918 *Sounding Bodies* Peter Pesic, 2022-10-11 The unfolding influence of music and sound on the fundamental structure of the biomedical sciences from ancient times to the present Beginning in ancient Greece Peter Pesic writes music and sound significantly affected the development of the biomedical sciences Physicians used rhythmical ratios to interpret the pulse which inspired later efforts to record the pulse in musical notation After 1700 biology and medicine took a sonic turn viewing the body as a musical instrument the rhythms and vibrations of which could guide therapeutic insight In Sounding Bodies Pesic traces the unfolding influence of music and sound on the fundamental structure of the

biomedical sciences Pesic explains that music and sound provided the life sciences important tools for hearing understanding and influencing the rhythms of life As medicine sought to go beyond the visible manifestations of illness sound offered ways to access the hidden interiority of body and mind Sonic interventions addressed the search for a new typology of mental illness and practitioners used musical instruments to induce hypnotic states meant to cure both psychic and physical ailments The study of bat echolocation led to the manifold clinical applications of ultrasound such sonic devices as telephones and tuning forks were used to explore the functioning of the nerves Sounding Bodies follows Pesic s Music and the Making of Modern Science and Polyphonic Minds to complete a trilogy on the influence of music on the sciences Enhanced digital editions of Sounding Bodies offer playable music and sound examples **The Monthly Musical Record** ,1878 The Encyclopædia Britannica ,1893 The Encyclopaedia Britannica ,1890 Monthly musical record ,1878 Annual Report National Association for the Promotion of Technical and Secondary Education (Great Britain),1889 Modern Music and Musicians ... Louis Charles Elson,1918

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