

SELECTED SCIENTIFIC WORKS OF

Hans Christian Ørsted

HANS CHRISTIAN ØRSTED

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Selected Scientific Works Of Hans Christian Orsted

Hans Christian Ørsted



Selected Scientific Works Of Hans Christian Ørsted:

Selected Scientific Works of Hans Christian Ørsted Hans Christian Ørsted, 2014-07-14 Hans Christian Ørsted 1777-1851 was one of the leading scientists of the nineteenth century having played a crucial role in founding electromagnetism. Unfortunately for the English speaking world almost all of his research was published in other languages particularly his native Danish. This book will help to elevate Ørsted to his rightful place in the history of science by finally making his most important scientific works available in English. The book includes for example Ørsted's account of his revolutionary experiments in electromagnetism. In 1820 he discovered that a compass needle deflects from magnetic north when an electric current is switched on or off in a nearby wire. This showed that electricity and magnetism were related phenomena a finding that laid the foundation for the theory of electromagnetism and for research that later created such technologies as radio, television and fiber optics. The unit of magnetic field strength was named the Ørsted in his honor. Selections here also show the extraordinary breadth of Ørsted's interests which range through a long and prolific career from the study of plant alkaloids and the compression of fluids to the nature of light and the natural science of beauty. The writings are taken from scientific papers, Ørsted's correspondence and reports of the Royal Danish Academy of Sciences and Letters. The book will not only draw long overdue attention to Ørsted's own work but will also shed new light on the nature of scientific study in the nineteenth century. Originally published in 1998, The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

H.C. Ørsted's Theory of Force Hans Christian Ørsted, 2003 *Hans Christian Ørsted and the Romantic Legacy in Science* Robert M. Brain, Robert S. Cohen, Ole Knudsen, 2007-09-28. This volume owes its origin to the perception of a puzzling paradox. Hans Christian Ørsted, the great Danish scientist and philosopher, was one of the founders of modern physics through his experimental discovery in 1820 of the interaction of electricity and magnetism, a key step and model for the further unification of the forces of nature. Followers such as Maxwell and Einstein were, and today's researchers worldwide are enchanted by the hope for a completion of that grand program. In addition to Ørsted's discovery of electromagnetism, his work in science included other fields, chiefly high pressure physics and acoustics. Moreover, he belonged to that fascinating group of seekers who were deeply engaged in the Romantic tradition of the Nature Philosophers, influenced by Immanuel Kant and by religious, literary and aesthetic currents. The scientific and philosophical speculations by Ørsted and his circle also quickly stimulated the imagination of other philosophers and scientists. Among the latter were prominently André-Marie Ampère and Michael Faraday, whose work launched the transformation of civilization often called the Second Industrial Revolution based on the invention of motors.

generators and the pervasiveness of electricity in modern life **Hans Christian Ørsted** Dan Ch Christensen, 2013-05-23 This is the narrative of the Scandinavian scientist Hans Christian Ørsted the discoverer of electromagnetism Ørsted was also one of the cultural leaders and organizers of the Danish Golden Age making significant contributions to aesthetics philosophy pedagogy politics and religion *Science in the Enlightenment* William E. Burns, 2003-11-17 The first introductory A Z resource on the dynamic achievements in science from the late 1600s to 1820 including the great minds behind the developments and science's new cultural role Though the Enlightenment was a time of amazing scientific change science is an often neglected facet of that time Now *Science in the Enlightenment* redresses the balance by covering all the major scientific developments in the period between Newton's discoveries in the late 1600s to the early 1800s of Michael Faraday and Georges Cuvier Over 200 A Z entries explore a range of disciplines including astronomy and medicine scientists such as Sir Humphry Davy and Benjamin Franklin and instruments such as the telescope and calorimeter Emphasis is placed on the role of women and proper attention is given to the shifts in the worldview brought about by Newtonian physics Antoine Laurent Lavoisier's chemical revolution and universal systems of botanical and zoological classification Moreover the social impact of science is explored as well as the ways in which the work of scientists influenced the thinking of philosophers such as Voltaire and Denis Diderot and the writers and artists of the romantic movement **Absolute Music** Mark Evan Bonds, 2014 What we think music is shapes how we hear it This book traces the history of the idea of pure absolute music from Pythagoras to the present with special emphasis on efforts to reconcile the irreducible essence of the art with its profound effects on the human spirit The core of this study focuses on the period 1850-1935 beginning with the collision between Richard Wagner and the Viennese critic Eduard Hanslick [The Spinning Magnet](#) Alanna Mitchell, 2018-01-30 The mystery of Earth's invisible life supporting power Alanna Mitchell's globe trotting history of the science of electromagnetism and the Earth's magnetic field right up to the latest indications that the North and South Poles may soon reverse with apocalyptic results will soon change the way you think about our planet Award winning journalist Alanna Mitchell's science storytelling introduces intriguing characters from the thirteenth century French investigations into magnetism and the Victorian era discover that electricity and magnetism emerge from the same fundamental force to the latest research No one has ever told so eloquently how the Earth itself came to be seen as a magnet spinning in space with two poles and that those poles have dramatically reversed many times often coinciding with mass extinctions The most recent reversal was 780 000 years ago Mitchell explores indications that the Earth's magnetic force field is decaying faster than previously thought When the poles switch a process that takes many years the Earth is unprotected from solar radiation storms that would among other disturbances wipe out much and possibly all of our electromagnetic technology Navigation for all kinds of animals is disrupted without a stable magnetic North Pole But can you imagine no satellites no Internet no smartphones maybe no power grids at all Alanna Mitchell offers a beautifully crafted narrative history of surprising ideas and science illuminating

invisible parts of our own planet that are constantly changing around us Teaching Science with Context Maria Elice de Brzezinski Prestes, Cibelle Celestino Silva, 2018-07-25 This book offers a comprehensive overview of research at interface between History Philosophy and Sociology of Science HPSS and Science Teaching in Ibero America It contributes to research on contextualization of science for students teachers and researchers and explains how to use different episodes of history of science or different themes of philosophy of science in regular science classes through diverse pedagogical approaches The chapters in this book discuss a wide range of topics under different methodological epistemological and didactic approaches reflecting the richness of research developed in Spanish and Portuguese speaking countries Latin America Spain and Portugal The book contains chapters about historical events topics of philosophy and sociology of science nature of science applications of HPSS in the classroom instructional materials for students and teacher training courses and curriculum

Research , Victory and Vexation in Science Gerald Holton, 2005-05-30 This book shows why at any given time there exists no single scientific paradigm but rather a spectrum of competing perspectives Considering conflicts between Heisenberg and Einstein Bohr and Einstein and P W Bridgman and B F Skinner Holton demonstrates a masterly understanding of modern science and how it influences our world **Physics and Literature** Aura Heydenreich, Klaus Mecke, 2021-12-20 Physics and Literature is a unique collaboration between physicists literary scholars and philosophers the first collection of essays to examine together how science and literature beneath their practical differences share core dimensions forms of questioning thinking discovering and communicating insights This book advances an in depth exploration of relations between physics and literature from both perspectives It turns around the tendency to discuss relations between literature and science in one sided and polarizing ways The collection is the result of the inaugural conference of ELINAS the Erlangen Center for Literature and Natural Science an initiative dedicated to building bridges between literary and scientific research ELINAS revitalizes discussion of science literature interconnections with new topics ideas and angles by organizing genuine dialogue among participants across disciplinary lines The essays explore how scientific thought and practices are conditioned by narrative and genre fiction models and metaphors and how science in turn feeds into the meaning making of literary and philosophical texts These interdisciplinary encounters enrich reflections on epistemology cognition and aesthetics 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

Chemical Sciences in the 20th Century Carsten

Reinhardt,2001-05-25 Chemistry in the last century was characterized by spectacular growth and advances stimulated by revolutionary theories and experimental breakthroughs Yet despite this rapid development the history of this scientific discipline has achieved only recently the status necessary to understand the effects of chemistry on the scientific and technological culture of the modern world This book addresses the bridging of boundaries between chemistry and the other classical disciplines of science physics and biology as well as the connections of chemistry to mathematics and technology Chemical research is represented as an interconnected patchwork of scientific specialties and this is shown by a mixture of case studies and broader overviews on the history of organic chemistry theoretical chemistry nuclear and cosmochemistry solid state chemistry and biotechnology All of these fields were at the center of the development of twentieth century chemistry and the authors cover crucial topics such as the emergence of new subdisciplines and research fields the science technology relationship and national styles of scientific work This monograph represents a unique treasure trove for general historians and historians of science while also appealing to those interested in the theoretical background and development of modern chemistry

Space-time Jonathan Allday,2019-05-28 Read an exclusive interview with Dr Allday where he

discusses the importance of the monumental first image of the black hole here This book suitable for interested post 16 school pupils or undergraduates looking for a supplement to their course text develops our modern view of space time and its implications in the theories of gravity and cosmology While aspects of this topic are inevitably abstract the book seeks to ground thinking in observational and experimental evidence where possible In addition some of Einstein s philosophical thoughts are explored and contrasted with our modern views Written in an accessible yet rigorous style Jonathan Allday a highly accomplished writer brings his trademark clarity and engagement to these fascinating subjects which underpin so much of modern physics Features Restricted use of advanced mathematics making the book suitable for post 16 students and undergraduates Contains discussions of key modern developments in quantum gravity and the latest developments in the field including results from the Laser Interferometer Gravitational Wave Observatory LIGO Accompanied by appendices on the CRC Press website featuring detailed mathematical arguments for key derivations

The Wrong Assumption Diego

Elustondo,2012-07-17 The Wrong Assumption Revolutionary Scientific Theories That Shape the Elusive Supernatural World

provides a scientific approach to philosophical thinking and encourages readers to explore their spiritual beliefs By using simple language and honest scientific rigor this e book illuminates fascinating and revolutionary scientific theories that provide physical shape to the otherwise elusive concept of the supernatural world Readers are exposed to a large variety of scientific theories that justify the existence of spiritual beliefs Unlike other similar books that explore the connection between science and religion this e book refrains from manipulating science to fit a particular dogma rather it highlights scientific concepts remarkably similar to those ideas traditionally associated with spiritual beliefs This e book condenses the scientific knowledge that is currently dispersed throughout many books into a reader friendly volume Cohesion J. S.

Rowlinson,2005-06-30 Why does matter stick together Why do gases condense to liquids and liquids to solids This book provides a detailed historical account of how some of the leading scientists of the past three centuries have tried to answer these questions The topic of cohesion and the study of intermolecular forces has been an important component of physical science research for hundreds of years This book is organised into four broad periods of advances in our understanding The first three are associated with Newton Laplace and van der Waals The final section gives an account of the successful use in the twentieth century of quantum mechanics and statistical mechanics to resolve most of the remaining problems The book will be of primary interest to physical chemists and physicists as well as historians of science interested in the historical origins of our modern day understanding of cohesion Stereophonica Gascia Ouzounian,2021-02-16 Episodes in the transformation of our understanding of sound and space from binaural listening in the nineteenth century to contemporary sound art The relationship between sound and space has become central to both creative practices in music and sound art and contemporary scholarship on sound Entire subfields have emerged in connection to the spatial aspects of sound from spatial audio and sound installation to acoustic ecology and soundscape studies But how did our understanding of sound become spatial In Stereophonica Gascia Ouzounian examines a series of historical episodes that transformed ideas of sound and space from the advent of stereo technologies in the nineteenth century to visual representations of sonic environments today Developing a uniquely interdisciplinary perspective Ouzounian draws on both the history of science and technology and the history of music and sound art She investigates the binaural apparatus that allowed nineteenth century listeners to observe sound in three dimensions examines the development of military technologies for sound location during World War I revisits experiments in stereo sound at Bell Telephone Laboratories in the 1930s and considers the creation of optimized acoustical environments for theaters and factories She explores the development of multichannel spatial music in the 1950s and sound installation art in the 1960s analyzes the mapping of soundscapes and investigates contemporary approaches to sonic urbanism sonic practices that reimagine urban environments through sound Rich in detail but accessible and engaging and generously illustrated with photographs drawings maps and diagrams of devices and artworks Stereophonica brings an acute imaginative and much needed historical sensibility to the growing literature around sound and space **Thought**

Experiments in Philosophy, Science, and the Arts Mélanie Frappier, Letitia Meynell, James Robert Brown, 2013 From Lucretius throwing a spear beyond the boundary of the universe to Einstein racing against a beam of light thought experiments stand as a fascinating challenge to the necessity of data in the empirical sciences Are these experiments conducted uniquely in our imagination simply rhetorical devices or communication tools or are they an essential part of scientific practice This volume surveys the current state of the debate and explores new avenues of research into the epistemology of thought experiments *Thought Experiments in Science, Philosophy, and the Arts* Melanie Frappier, Letitia Meynell, James Robert Brown, 2012-09-10 From Lucretius throwing a spear beyond the boundary of the universe to Einstein racing against a beam of light thought experiments stand as a fascinating challenge to the necessity of data in the empirical sciences Are these experiments conducted uniquely in our imagination simply rhetorical devices or communication tools or are they an essential part of scientific practice This volume surveys the current state of the debate and explores new avenues of research into the epistemology of thought experiments Exploratory Experiments Friedrich Steinle, 2016-09-02 Translated by Alex Levine The nineteenth century was a formative period for electromagnetism and electrodynamics Hans Christian Orsted s groundbreaking discovery of the interaction between electricity and magnetism in 1820 inspired a wave of research led to the science of electrodynamics and resulted in the development of electromagnetic theory Remarkably in response Andre Marie Ampere and Michael Faraday developed two incompatible competing theories Although their approaches and conceptual frameworks were fundamentally different together their work launched a technological revolution laying the foundation for our modern scientific understanding of electricity and one of the most important debates in physics between electrodynamic action at a distance and field theories In this foundational study Friedrich Steinle compares the influential work of Ampere and Faraday to reveal the prominent role of exploratory experimentation in the development of science While this exploratory phase was responsible for decisive conceptual innovations it has yet to be examined in such great detail Focusing on Ampere s and Faraday s research practices reconstructed from previously unknown archival materials including laboratory notes diaries letters and interactions with instrument makers this book considers both the historic and epistemological basis of exploratory experimentation and its importance to scientific development

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