

SCIENTIFIC PAPERS OF ARTHUR HOLLY COMPTON

X-Ray and Other Studies



Edited and with an Introduction
by Robert S. Shankland

Scientific Papers Of Arthur Holly Compton X Ray And Other Studies

Arthur Holly Compton



Scientific Papers Of Arthur Holly Compton X Ray And Other Studies:

Scientific Papers of Arthur Holly Compton Arthur Holly Compton, 1973-12-01 Arthur Holly Compton was one of the great leaders in physics of the twentieth century In this volume Robert S Shankland who was once a student of Compton's has collected and edited the most important of Professor Compton's papers on X rays the field of his greatest achievement and on other related topics Compton entered the field of X ray research in 1913 and carried on active work until the 1930s when he began to specialize in cosmic rays During the years when Compton was an active leader in X ray research he made many notable contributions which are reflected in the papers presented here He was the first to prove several important optical properties of X rays including scattering complete polarization and total reflection He was also the first with his student R L Doan to use ruled gratings for the production of X ray spectra Professor Compton's greatest discovery for which he was awarded a Nobel Prize in 1927 was the Compton Effect This was the outgrowth of experiments he had initiated during a year at Cambridge in 1919-20 He did the major portion of these experiments at Washington University in St Louis during the period 1920-24 His work demonstrated that in the scattering of X rays by electrons the radiation behaves like corpuscles and that the interaction between the X ray corpuscles and the electrons in the scatter is completely described by the principles of the conservation of energy and momentum for the collisions of particles In his introduction Professor Shankland gives a historical account of the papers narrates Professor Compton's early scientific career and shows how he arrived at a quantum explanation of the Compton scattering after eliminating all classical explanations

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Compton scattering after eliminating all classical explanations Scientific Papers of Arthur Holly Compton Arthur Holly Compton, 1973-12 Arthur Holly Compton was one of the great leaders in physics of the twentieth century In this volume Robert S Shankland who was once a student of Compton's has collected and edited the most important of Professor Compton's papers on X rays the field of his greatest achievement and on other related topics Compton entered the field of X ray research in 1913 and carried on active work until the 1930s when he began to specialize in cosmic rays During the years when Compton was an active leader in X ray research he made many notable contributions which are reflected in the papers presented here He was the first to prove several important optical properties of X rays including scattering complete polarization and total reflection He was also the first with his student R L Doan to use ruled gratings for the production of X ray spectra Professor Compton's greatest discovery for which he was awarded a Nobel Prize in 1927 was the Compton Effect This was the outgrowth of experiments he had initiated during a year at Cambridge in 1919-20 He did the major portion of these experiments at Washington University in St Louis during the period 1920-24 His work demonstrated that in the scattering of X rays by electrons the radiation behaves like corpuscles and that the interaction between the X ray corpuscles and the electrons in the scatter is completely described by the principles of the conservation of energy and momentum for the collisions of particles In his introduction Professor Shankland gives a historical account of the papers narrates Professor Compton's early scientific career and shows how he arrived at a quantum explanation of the Compton scattering after eliminating all classical explanations Scientific Papers of Arthur Holly Compton, 1973 Making 20th Century Science Stephen G. Brush, Ariel Segal, 2015 Historically the scientific method has been said to require proposing a theory making a prediction of something not already known testing the prediction and giving up the theory or substantially changing it if it fails the test A theory that leads to several successful predictions is more likely to be accepted than one that only explains what is already known but not understood This process is widely treated as the conventional method of achieving scientific progress and was used throughout the twentieth century as the standard route to discovery and experimentation But does science really work this way In Making 20th Century Science Stephen G Brush discusses this question as it relates to the development of science throughout the last century Answering this question requires both a philosophically and historically scientific approach and Brush blends the two in order to take a close look at how scientific methodology has developed Several cases from the history of modern physical and biological science are examined including Mendeleev's Periodic Law Kekule's structure for benzene the light quantum hypothesis quantum mechanics chromosome theory and natural selection In general it is found that theories are accepted for a combination of successful predictions and better explanations of old facts Making 20th Century Science is a large scale historical look at the implementation of the scientific method and how scientific theories come to be accepted *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1978 **Early Days of X-ray Crystallography** André Authier, 2013-08-02 The year 2012 marked the centenary of

one of the most significant discoveries of the early twentieth century the discovery of X ray diffraction March 1912 by Laue Friedrich and Knipping and of Bragg s law November 1912 The discovery of X ray diffraction confirmed the wave nature of X rays and the space lattice hypothesis It had two major consequences the analysis of the structure of atoms and the determination of the atomic structure of materials This had a momentous impact in chemistry physics mineralogy material science biology and X ray spectroscopy The book relates the discovery itself the early days of X ray crystallography and the way the news of the discovery spread round the world It explains how the first crystal structures were determined by William Bragg and his son Lawrence and recounts which were the early applications of X ray crystallography in chemistry mineralogy materials science physics biological sciences and X ray spectroscopy It also tells how the concept of space lattice developed since ancient times up to the nineteenth century and how our conception of the nature of light has changed over time The contributions of the main actors of the story prior to the discovery at the time of the discovery and immediately afterwards are described through their writings and are put into the context of the time accompanied by brief biographical details This thoroughly researched account on the multiple faces of a scientific specialty X ray crystallography is aimed both at the scientists who rarely subject the historical material of past discoveries in their field to particular scrutiny with regard to the historical details and at the historians of science who often lack the required expert knowledge to scrutinize the involved technical content in sufficient depth M Eckert Metascience [The Cambridge Companion to Einstein](#) Michel Janssen,Christoph Lehner,2014-05-19 This volume is the first systematic presentation of the work of Albert Einstein comprising fourteen essays by leading historians and philosophers of science that introduce readers to his work Following an introduction that places Einstein s work in the context of his life and times the book opens with essays on the papers of Einstein s miracle year 1905 covering Brownian motion light quanta and special relativity as well as his contributions to early quantum theory and the opposition to his light quantum hypothesis Further essays relate Einstein s path to the general theory of relativity 1915 and the beginnings of two fields it spawned relativistic cosmology and gravitational waves Essays on Einstein s later years examine his unified field theory program and his critique of quantum mechanics The closing essays explore the relation between Einstein s work and twentieth century philosophy as well as his political writings **Invisible Light** Adrian Thomas,2022-03-27 The book is a developed history of the radiological sciences covering the back story to R ntgen s discovery the discovery itself and immediate reception the early days of radiology leading to classical radiology the pre digital world The 1970s as the golden decade of radiology will be covered in detail with the development of CT MRI and modern interventional radiology It will appeal to interested members of the public to those working in the field and to historians of medicine and science Key Features Accessible and engaging even for readers without any formal scientific training or education Authored by an authority in the field Contains previously unpublished materials from the author s extensive personal library and archive *BACK TO REALITY* Arto Annala,2020-07-15 WHAT IS TIME WHAT IS SPACE

WHAT IS MATTER WHAT IS LIFE seem unrelated questions but take a look and find answers to many foundational questions from elementary particles to the expanding universe and from the evolution of biotas to the ascent of cultures through the scientific insight that everything that exists deep down comprises quanta of light **The 20th Century A-GI** Frank N. Magill, 2013-05-13 Each volume of the Dictionary of World Biography contains 250 entries on the lives of the individuals who shaped their times and left their mark on world history This is not a who's who Instead each entry provides an in depth essay on the life and career of the individual concerned Essays commence with a quick reference section that provides basic facts on the individual's life and achievements The extended biography places the life and works of the individual within an historical context and the summary at the end of each essay provides a synopsis of the individual's place in history All entries conclude with a fully annotated bibliography **American Journal of Physics** ,1975 **Nuclear Science Abstracts** ,1974 *Contemporary Authors* Terrie M. Rooney, 1997-11 Your students and users will find biographical information on approximately 300 modern writers in this volume of Contemporary Authors R **The Nobel Prize Winners** Frank Northern Magill, 1989 **Acta Physica Polonica** ,2006 Advances in Child Development and Behavior Robert V. Kail, 2007-07-03 Volume 35 of the Advances in Child Development and Behavior series is divided into nine components that highlight some of the most recent research in developmental and educational psychology A wide array of topics are discussed in detail including Cognitive Mechanisms Episodic and Autobiographical Memory Emotional Security Theory Working memory and much more Each component provides in depth discussions of various developmental psychology specializations This volume serves as an invaluable resource for psychology researchers and advanced psychology students **Atomic Quest: A Personal Narrative** Arthur Holly Compton, 2019-08-09 As director of the Metallurgical Laboratory of the Manhattan Project at the University of Chicago Arthur Holly Compton was a major participant in the research production and testing of the first atomic bombs In this memoir he tells the story of the bomb's development from the presentation of the project to President Roosevelt through its planning research and building phases to its use against Japan From the perspective of the key position he held during World War II Compton describes the project as a large scale group effort leveraging the knowledge and talents of numerous scientists industrialists and administrators all working as part of their nation's war effort An absorbing and eminently readable account packed with new information enlivened with precious detail and illuminating insights into the minds and personalities of the chief actors in the drama Mr Compton tells and tells well the story of how with his unflagging encouragement the brilliant team under the late Enrico Fermi brought about the first nuclear chain reaction an important book Henry Guerlac The New York Times Book Review This book is without doubt the most authoritative source available on many aspects of the atomic bomb project Better than in most histories the real factors underlying one of mankind's most important developments are set forth in this work The story is a personal one which gives the book a Churchillian authenticity No historian will ever dare to neglect this volume in writing the history of World War II It is

beautifully written carefully documented and thoroughly interesting from cover to cover W F Libby Science For those who were in the project it will mean many recollections For those who were not it should give an inkling of the character and capacity of many of the individuals including Arthur Compton who made success possible Lieutenant General Leslie R Groves U S Army Retired Atomic Quest is an absorbingly interesting story of the people who blazed the trail into the atomic frontier In a lifetime filled with brilliant accomplishments Arthur Compton s four year leadership in the quest for the atomic bomb was his grandest achievement It is fortunate indeed that he returned to the fold long enough to set down in Atomic Quest a story that only he could tell Richard L Doan American Journal of Physics Dr Compton is a thinking man whose reflections range far beyond the confines of his scientific work indeed the distinctive quality of his book lies in his ability to reconcile the atomic bomb and similar operations with his belief as a practicing Christian John Barkham Saturday Review Syndicate It should be required reading for every American for the free world The narrative alone makes the book worth reading its hopeful philosophy makes it mandatory reading Robert S Kleckner Chicago Sunday Tribune As director of the Metallurgical Laboratory of the Manhattan Project Dr Compton has an important record to add to the annals of the beginning of the Atomic Age for his was a personal and intimate connection with it Kirkus A leading physicist s personal account of the wartime developments in atomic energy culminating in the production of the atomic bomb Henry L Roberts Foreign Affairs Informal anecdotal packed with behind the scenes incidents and impressions arrestingly interesting George W Gray The Saturday Review The most controversial part of the book is that which endeavors to foresee the future of a world faced with the threat of war with nuclear weapons and the inevitable widespread destruction that will accompany their use Compton is convinced that war has actually thereby become obsolescent Robert Bruce Lindsay Physics Today This book is written for the layman in clear everyday English it answers the questions that have arisen in the minds of all intelligent people concerning the physical moral social and religious implications of the Atomic Age which was so brutally and vividly thrust upon the world in 1945 Paul Jordan Smith Los Angeles Times

Photons Klaus Hentschel, 2018-08-16 This book focuses on the gradual formation of the concept of light quanta or photons as they have usually been called in English since 1926 The great number of synonyms that have been used by physicists to denote this concept indicates that there are many different mental models of what light quanta are simply finite quantized packages of energy or bullets of light Atoms of light or molecules of light Light corpuscles or quantized waves Singularities of the field or spatially extended structures able to interfere Photons in G N Lewis s sense or as defined by QED i e virtual exchange particles transmitting the electromagnetic force The term light quantum made its first appearance in Albert Einstein s 1905 paper on a heuristic point of view to cope with the photoelectric effect and other forms of interaction of light and matter but the mental model associated with it has a rich history both before and after 1905 Some of its semantic layers go as far back as Newton and Kepler some are only fully expressed several decades later while others initially increased in importance then diminished and finally vanished In conjunction with these

various terms several mental models of light quanta were developed six of them are explored more closely in this book It discusses two historiographic approaches to the problem of concept formation a the author s own model of conceptual development as a series of semantic accretions and b Mark Turner s model of conceptual blending Both of these models are shown to be useful and should be explored further This is the first historiographically sophisticated history of the fully fledged concept and all of its twelve semantic layers It systematically combines the history of science with the history of terms and a philosophically inspired history of ideas in conjunction with insights from cognitive science **Historical Studies in the Physical and Biological Sciences** ,2006

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Table of Contents Scientific Papers Of Arthur Holly Compton X Ray And Other Studies

1. Understanding the eBook Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - The Rise of Digital Reading Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - Advantages of eBooks Over Traditional Books
2. Identifying Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - User-Friendly Interface
4. Exploring eBook Recommendations from Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - Personalized Recommendations
 - Scientific Papers Of Arthur Holly Compton X Ray And Other Studies User Reviews and Ratings
 - Scientific Papers Of Arthur Holly Compton X Ray And Other Studies and Bestseller Lists
5. Accessing Scientific Papers Of Arthur Holly Compton X Ray And Other Studies Free and Paid eBooks

- Scientific Papers Of Arthur Holly Compton X Ray And Other Studies Public Domain eBooks
 - Scientific Papers Of Arthur Holly Compton X Ray And Other Studies eBook Subscription Services
 - Scientific Papers Of Arthur Holly Compton X Ray And Other Studies Budget-Friendly Options
6. Navigating Scientific Papers Of Arthur Holly Compton X Ray And Other Studies eBook Formats
 - ePub, PDF, MOBI, and More
 - Scientific Papers Of Arthur Holly Compton X Ray And Other Studies Compatibility with Devices
 - Scientific Papers Of Arthur Holly Compton X Ray And Other Studies Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - Highlighting and Note-Taking Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - Interactive Elements Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 8. Staying Engaged with Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 9. Balancing eBooks and Physical Books Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - Setting Reading Goals Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - Fact-Checking eBook Content of Scientific Papers Of Arthur Holly Compton X Ray And Other Studies
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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Name: Date: Period ng evidence from the reconstructed skeleton, you will infer some habits and adaptations of this pterosaur. OBJECTIVES Reconstruct the skeleton of *S. crassirostris* ... Pterosaur Reconstruction.doc Data: Copy the chart on your own paper and turn in with questions and your fossil Table 1 Characteristics of *S. crassirostris* Wingspan (centimeters)? Jaw ... Using Mathematics in Fossil Reconstruction How would scientists predict the pterosaur's probable wingspan from these pieces? Data from similar pterosaurs found throughout the world were available from ... Early pterosaur reconstructions - Archosaur Musings Jul 6, 2009 — ... fossil (though the ones in the background look far more ... Mesozoic Vertebrates The Munich palaeo lab; Mike Taylor's site Mike's research ... Schematic skeletal reconstruction of the small Jurassic ... Pterosaurs are an extinct group of Mesozoic flying reptiles, whose fossil record extends from approximately 210 to 66 million years ago. They were integral ...