

HISTORY OF THE ATOM

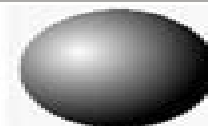
GENERAL CHEMISTRY 1

DATE: SEPT 15, 2020

MADE BY: ELLA SABIDO 11SP

DEMOCRITUS (400 B.C.)

- formulated the term 'atom' and believed that matter can be broken down to its simplest and smallest substance called atom.



ARISTOTLE (300 B.C. - 1800's)

- dismissed the idea of atoms and declared that all matter was made of only four elements: fire, air, water and earth.
- believed that there are only five elements that exist: fire, water, earth and air.



DALTON (1803)

- he theorized that all matter is made of atoms. Atoms are too small to see, "uncuttable," and indestructible.
- developed the atomic theory: All atoms of a given element are exactly alike and atoms of different elements are different.



BILLIARD BALL ATOM

THOMSON (1897)

- he discovered the presence of the electron.
- he proposed a model of the atom that is sometimes called the "Plum Pudding" model. His theory was that atoms are made from a positively charged substance with negatively charged electrons scattered about, like raisins in a pudding or chocolate chips in a cookie.



PLUM PUDDING

RUTHERFORD (1908)

- he performed an experiment using positively charged particles fired at gold foil.
- he theorized that atoms have a small, dense, positively charged center, which he called the "nucleus".



NUCLEUS MODEL

BOHR (1913)

- he suggested that electrons orbit in different levels.
- he studied the structure of atoms based on Rutherford's discoveries.
- the more energy an atom gives off, the closer it is to the nucleus, the more it absorbs, the farther away.



BOHR MODEL OR THE QUANTUM MODEL

MODERN CLOUD THEORY (20th Century)

- according to today's atomic theory, in the electron cloud, electrons whirl around the nucleus billions of times in one second. They are not moving around in random patterns; an electron's location depends upon how much energy the electron has.



COTTON BALL OR MODERN ATOM MODEL



History Of The Atom Notes Key

Arne Hessenbruch



History Of The Atom Notes Key:

Enlightenment Orientalism Srinivas Aravamudan, 2024-05-31 Srinivas Aravamudan here reveals how Oriental tales pseudo ethnographies sexual fantasies and political satires took Europe by storm during the eighteenth century Naming this body of fiction Enlightenment Orientalism he poses a range of urgent questions that uncovers the interdependence of Oriental tales and domestic fiction thereby challenging standard scholarly narratives about the rise of the novel More than mere exoticism Oriental tales fascinated ordinary readers as well as intellectuals taking the fancy of philosophers such as Voltaire Montesquieu and Diderot in France and writers such as Defoe Swift and Goldsmith in Britain Aravamudan shows that Enlightenment Orientalism was a significant movement that criticized irrational European practices even while sympathetically bridging differences among civilizations A sophisticated reinterpretation of the history of the novel Enlightenment Orientalism is sure to be welcomed as a landmark work in eighteenth century studies *The Atom in Seventeenth-century Poetry* Cassandra Gorman, 2021 An investigation into the remarkable poetics of the atom in English literary texts from the mid to late seventeenth century The early modern atom understood as an indivisible particle of matter captured the poetic imagination in ways that extended far beyond the reception of Lucretius and Epicurean atomism Contrarily to fears of atomisation and materialist threat many poets and philosophers of the period sought positive spiritual motivation in the concept of material indivisibility This book traces the metaphysical import of these poetic atoms teasing out an affinity between poetic and atomic forms in seventeenth century texts In the writings of Henry More Thomas Traherne Margaret Cavendish Hester Pulter and Lucy Hutchinson both atoms and poems were instrumental in acts of creating ordering and reconstructing knowledge Their poems emerge as exquisitely self conscious atomic forms producing intimate reflections on the creative power and indivisibility of self soul and God The book begins with a survey of the imaginative possibilities surrounding the early modern atom before considering the indivisible centres of the Cambridge Platonist Henry More s cosmic Spenserian poetics The focus then turns to the lyrical bond formed between atom and soul in the writings of Thomas Traherne and from there to the experimental sequences of Margaret Cavendish and Hester Pulter whose poetic spaces create new worlds and imagine alternative lives The book concludes with a study of Lucy Hutchinson s creation poem Order and Disorder which anticipates the regeneration of fallen being in atomic and alchemical terms *Humanities Index*, 1987 Spotlight Science Keith Johnson, Sue Adamson, Gareth Williams, 2002 This Spiral Edition Teacher Support Pack offers comprehensive support and guidance providing the best possible learning experience for your students and saving time for everyone in the department *An Analysis of Carlo Ginzburg's The Night Battles* Etienne Stockland, Luke Freeman, 2017-07-05 In *The Night Battles* Carlo Ginzburg does more than introduce his readers to a novel group of supposed witches the Benandanti from the northern Italian province of Friulia He also invents and deploys new and creative ways of tackling his source material that allow him to move beyond their limitations Witchcraft documents are notoriously tricky

sources produced by elites with fixed views they are products of questioning designed to prove or disprove guilt rather than understand the subtleties of belief and are very often the products of torture Ginzburg placed great stress on variations in the evidence of the Benandanti over time to reveal changing patterns of belief and also focused on the concept of reading against the text essentially looking as much at what is absent from the record as at what is present in it and attempting to understand what the absences mean His work not only pioneered the creation of a new school of historical study microhistory it is also a great example of the creative thinking skills of connecting things together in an original way producing novel explanations for existing evidence and redefining an issue so as to see it in a new light

Compiling Texts

in Eighteenth-Century Britain Rebeca Araya Acosta, 2024-08-23 This book argues that the act of compiling texts together into collections in the eighteenth century is politically and epistemologically significant Focusing on the reception of Scottish Enlightenment ideas and ranging across an Edinburgh print shop an excluded religious community in the North of England and the story worlds of novelists and poets the study reveals compilation to be a politically resistant activity it challenged centralizing and homogenizing tendencies within the growing British empire in the latter half of the eighteenth century and actively built counternarratives Rebeca Araya Acosta offers a fresh view of eighteenth century literary transaction and shows how practices of compilation in the period were more diversified and had a far greater impact on readers than their modern descendants

Bulletin of the Atomic Scientists, 1993-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world

Descriptive Catalogue of Books Contained in the Lending Library Bishopsgate Institute, London, 1901

Forging the Atomic Shield Roger M. Anders, 2017-12-15

Soon after his appointment as chairman of the U S Atomic Energy Commission in 1950 Gordon E Dean began an office diary composed primarily of notes from his telephone conversations The diary contains Dean's accounts of the mobilization of atomic energy for the Korean War the decision to conduct atmospheric nuclear weapons tests in the U S the development and testing of the first thermonuclear device the decisions to erect vast plants for the production of atomic weapons the Rosenberg atom spy case and other critical issues Originally published in 1987 A UNC Press Enduring Edition UNC Press Enduring Editions use the latest in digital technology to make available again books from our distinguished backlist that were previously out of print These editions are published unaltered from the original and are presented in affordable paperback formats bringing readers both historical and cultural value

Technical Books & Monographs Sponsored by the U.S. Atomic Energy Commission U.S. Atomic Energy Commission,

Forensic Chemistry Michael Grossman, 2021-12-20 FORENSIC CHEMISTRY FUNDAMENTALS strives to help scientists workplace health safety and other areas are included And two issues of Canadian legal process are argued as essays in the final two chapters

Software and CD-ROM Reviews on File, 1996

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 **Bulletin of the Atomic Scientists** ,1976-04 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *Collected Essays: Volume I* J.J. Griffin IV, **Spymaster's Prism** Jack Devine,2021-03 Spymaster s Prism is a prescient study of our unending struggle with Russia and its intelligence agencies relentless effort to undermine our national security Replete with the most salient spy stories covert actions and counterintelligence investigations from the beginning of the Cold War up until the eve of Putin s misguided march on Kiev legendary spymaster Jack Devine builds a vivid and complex mosaic that illustrates how Russia has employed intelligence activities to undermine our democracy throughout modern history and lay the groundwork for this invasion Devine tells this story through the gimlet eyed perspective of a seasoned CIA professional who served his country for more than three decades some at the highest levels of the agency offering objective and candid analysis that will bring new insight into Russia s invasion Devine offers key lessons from our intelligence successes and failures over the past seventy five years that illuminate how best to address our current strategic shortfalls emerge ahead in the war and be prepared for what s to come from any adversary This cogent study illuminates why intelligence has been such a key driver in the war and how it will be a critical lever in order to prevail **Atomic Bill** Vincent Kiernan,2022-11-15 In Atomic Bill Vincent Kiernan examines the fraught career of New York Times science journalist William L Laurence and shows his professional and personal lives to be a cautionary tale of dangerous proximity to power Laurence was fascinated with atomic science and its militarization When the Manhattan Project drew near to perfecting the atomic bomb he was recruited to write much of the government s press materials that were distributed on the day that Hiroshima was obliterated That instantly crowned Laurence as one of the leading journalistic experts on the atomic bomb As the Cold War dawned some assessed Laurence as a propagandist defending the militarization of atomic energy For others he was a skilled science communicator who provided the public with a deep understanding of the atomic bomb Laurence leveraged his perch at the Times to engage in paid speechmaking book writing filmmaking and radio broadcasting His work for the Times declined in quality even as his relationships with people in power grew closer and more lucrative Atomic Bill reveals extraordinary ethical lapses by Laurence such as a cheating scandal at Harvard University and plagiarizing from press releases about atomic bomb tests in the Pacific In 1963 a conflict of interest related to the 1964 World s Fair in New York City led to his forced retirement from the Times Kiernan shows Laurence to have set the trend common among today s journalists of science and technology to prioritize gee whiz coverage of discoveries That approach in which Laurence served the interests of governmental official

and scientists recommends a full revision of our understanding of the dawn of the atomic era **Scottish Literary Journal**
,1984 **NBS Special Publication** ,1968 *Publications* United States. National Bureau of Standards,1980

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