

THE
SHOCKING
HISTORY OF

PHOSPHORUS

A BIOGRAPHY OF THE
DEVIL'S ELEMENT

"This is popular science at its best, a great
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JOHN EMSLEY

Shocking History Of Phosphorus A Biography Of The Devils Element

Tim James



Shocking History Of Phosphorus A Biography Of The Devils Element:

The Shocking History of Phosphorus John Emsley, 2000 John Emsley's unusual study traces the history and development of the use of phosphorus an autocombustive element that was discovered long before humans were responsible or capable of controlling its awesome power The Devil's Element Dan Egan, 2023-03-07 A New Yorker Best Book of the Year Lively and thought provoking Robert W Howarth Science The New York Times best selling author on the source of great bounty and now great peril all over the world Phosphorus has played a critical role in some of the most lethal substances on earth firebombs rat poison nerve gas But it's also the key component of one of the most vital fertilizer which has sustained life for billions of people In this major work of explanatory science and environmental journalism Pulitzer Prize finalist Dan Egan investigates the past present and future of what has been called the oil of our time The story of phosphorus spans the globe and vast tracts of human history First discovered in a seventeenth century alchemy lab in Hamburg it soon became a highly sought after resource The race to mine phosphorus took people from the battlefields of Waterloo which were looted for the bones of fallen soldiers to the fabled guano islands off Peru the Bone Valley of Florida and the sand dunes of the Western Sahara Over the past century phosphorus has made farming vastly more productive feeding the enormous increase in the human population Yet as Egan harrowingly reports our overreliance on this vital crop nutrient is today causing toxic algae blooms and dead zones in waterways from the coasts of Florida to the Mississippi River basin to the Great Lakes and beyond Egan also explores the alarming reality that diminishing access to phosphorus poses a threat to the food system worldwide which risks rising conflict and even war With The Devil's Element Egan has written an essential and eye opening account that urges us to pay attention to one of the most perilous but little known environmental issues of our time

Water-Formed Deposits Zahid Amjad, Konstantinos D. Demadis, 2022-03-24 Water Formed Deposits Fundamentals and Mitigation Strategies wholly presents the important issue of deposits in aqueous systems both industrial and biological By analyzing causes mechanisms and mitigation strategies the book helps researchers engineers end users gain a fundamental understanding of the issues underlying deposit formation and mitigation It covers numerous fundamental aspects of water formed deposits while also giving an applications perspective The book's goal is to assist the reader in his/her understanding of the important issues of scale formation while also helping with potential solutions Provides a fundamental understanding of deposit formation by presenting basic science and mechanisms Presents an applications perspective Reveals a systematic overview of deposit related challenges and their mitigation Correlates structure to performance in mitigation strategies Analyzes current legal aspects and regulations Includes case studies from the real industrial world for the industrial reader end user Smoking under the Tsars Tricia Starks, 2018-09-15 Approaching tobacco from the perspective of users producers and objectors Smoking under the Tsars provides an unparalleled view of Russia's early adoption of smoking Tricia Starks introduces us to the addictive nicotine soaked Russian version of the cigarette the papirosa and the sensory medical

social cultural and gendered consequences of this unique style of tobacco use Starting with the papirosa s introduction in the nineteenth century and its foundation as a cultural and imperial construct Starks situates the cigarette s emergence as a mass use product of revolutionary potential She discusses the papirosa as a moral and medical problem tracks the ways in which it was marketed as a liberating object and concludes that it has become a point of increasing conflict for users reformers and purveyors The heavily illustrated Smoking under the Tsars taps into bountiful material in newspapers industry publications etiquette manuals propaganda posters popular literature memoirs cartoons poetry and advertising Starks frames her history within the latest scholarship in imperial and early Soviet history and public health anthropology and addiction studies The result is an ambitious social and cultural exploration of the interaction of institutions ideas practice policy consumption identity and the body Starks has reconstructed how Russian smokers experienced understood and presented their habit in all its biological psychological social and sensory inflections providing the reader with incredible images and a unique application of anthropology and sensory analysis to the experience of tobacco dependency

Victorian Material Culture Richard Menke,2022-07-14 From chatelaines to whale blubber ice making machines to stained glass this six volume collection will be of interest to the scholar student or general reader alike anyone who has an urge to learn more about Victorian things The set brings together a range of primary sources on Victorian material culture and discusses the most significant developments in material history from across the nineteenth century The collection will demonstrate the significance of objects in the everyday lives of the Victorians and addresses important questions about how we classify and categorise nineteenth century things This collection brings together a range of primary sources on Victorian material and culture This third volume Invention and Technology will look at a variety of Victorian inventions both foundational and short lived

A Cartography of Resistance Keith Grint,2024-07-30 Resistance is universal but why does it occur and fail or succeed Resistance is often regarded in traditional management books as a problem to be overcome because it is seen as short sighted or self interested Grint suggests however that resistance is not necessarily right or wrong From resistance to the Roman Empire to slavery to the Nazis to racism to the state and capital to patriarchy and to imperialism this book ranges across time and place to explain the success or failure of resistance While many contemporary approaches focus on leadership as the explanatory variable A Cartography of Resistance expands the approach to include management and command of resistance movements and of their opponents Many of the case studies explore the failures as well as the successes of resistance and the book suggests that even the failures reveal a fundamental truth about the human condition just because the situation looks bleak for those suffering from oppression does not mean they surrendered meekly Rather many seemed to adopt the same attitude that led Sisyphus to keep rolling the boulder up the hill they were determined not to let their situation define or defeat them

A Cultural History of Chemistry in the Nineteenth Century Peter J. Ramberg,2023-12-14 A Cultural History of Chemistry in the Nineteenth Century covers the period from

1815 to 1914 and the birth of modern chemistry The elaboration of atomic theory and new ideas of periodicity structure bonding and equilibrium emerged in tandem with new instruments and practices The chemical industry expanded exponentially fuelled by an increasing demand for steel aluminium dyestuffs pharmaceuticals and consumer goods And the chemical laboratory became established in its two distinct modern settings of the university and industry At the turn of the century the discovery of radioactivity took hold of the public imagination drawing chemistry closer to physics even as it threatened to undermine the whole concept of atomism The 6 volume set of the Cultural History of Chemistry presents the first comprehensive history from the Bronze Age to today covering all forms and aspects of chemistry and its ever changing social context The themes covered in each volume are theory and concepts practice and experiment laboratories and technology culture and science society and environment trade and industry learning and institutions art and representation Peter J Ramberg is Professor of the History of Science at Truman State University USA Volume 5 in the Cultural History of Chemistry set General Editors Peter J T Morris University College London UK and Alan Rocke Case Western Reserve University USA Research Handbook on Law, Governance and Planetary Boundaries Duncan French, Louis J.

Kotzé, 2021-04-30 This comprehensive Research Handbook is the first study to link law and Earth system science through the epistemic lens of the planetary boundaries framework It critically examines the legal and governance aspects of the framework considering not only each planetary boundary but also a range of systemic issues including the ability of law to keep us within the planetary boundaries safe operating space *Magique atome* Tim James, 2022-09-21 Quelle est la

formule chimique d'un être humain Quelle est la substance la plus dangereuse de l'histoire Quels sont les neuf éléments qui ont radicalement changé le monde Ce livre vous emmène à la découverte des 118 briques fondamentales de la matière les atomes Au cours de ce voyage vous rencontrerez le célèbre savant Dmitri Mendeleïev inventeur du tableau périodique des éléments et serez initié avec humour et sans effort aux mystères de la matière la radioactivité et même la fusion nucléaire **Labour,**

Finance and Inequality Suzanne J. Konzelmann, Simon Deakin, Marc Fovargue-Davies, Frank Wilkinson, 2018-03-15

Following the 2008 global financial crisis the viability of globalised financial capitalism was called into question The resulting fear and uncertainty produced a momentary return to Keynesian policies But as soon as emergency stimuli and bank bail outs appeared to stabilise the situation there was a sharp reversal and successive British governments and the financial sector have since attempted to return to business as usual Historically much smaller shocks have been able to produce dramatic change with the 1978 Winter of Discontent providing a catalyst for the election of Margaret Thatcher the ultimate abandonment of the post war Keynesian consensus and the ushering in of neoliberalism Nor is apparent success a guarantee against change with Winston Churchill being swept from office by the first majority Labour government in 1945 at a point which should have marked his greatest triumph In this book these apparently inexplicable shifts in the conventional wisdom and the accompanying policy paradigm are explored through the lens of the interest groups that have jostled for position

since the second industrial revolution In this context inequality poverty free market capitalism and the social welfare state have interacted in an uneasy dynamic dance the insecurity cycle The authors explore these interactions their impact on the relationship between society and the economy and the possible implications of Brexit and a re energised political left Written in an engaging and accessible style Labour Finance and Inequality will be a key resource for academics and students of social and political economics as well as public policy It will also offer considerable insight to policy makers and a more general non specialist audience

Literature and Chemistry Margareth Hagen, Margery Vibe Skagen, 2014-02-21 Literature and Chemistry Elective Affinities investigates literary and chemical encounters from medieval alchemy to contemporary science fiction in works of the likes of Dante Goethe Baudelaire and Dag Solstad as well as in literary writing of scientists such as Humphry Davy Ludwig Boltzmann and Oliver Sachs Sixteen authors break new ground in demonstrating chemistry's particular status as one of the sciences in which humanities should interest itself the overlaps and reciprocities of the two fields and perhaps most importantly chemistry's role in the production of narrative metaphor and literary form The anthology makes the silent presence of chemistry perceptible uncovering its historical and present appeal to material sensitivity imagination and creativity as well as its call for philosophical and ethical concern and for wonder

Saltpeter David Cressy, 2013-01-10 The story of the science the technology the politics and the military applications of saltpeter the vital but mysterious substance that governments from the Tudors to the Victorians regarded as an inestimable treasure

Consuming Ocean Island Katerina Martina Teaiwa, 2014-12-27 Consuming Ocean Island tells the story of the land and people of Banaba a small Pacific island which from 1900 to 1980 was heavily mined for phosphate an essential ingredient in fertilizer As mining stripped away the island's surface the land was rendered uninhabitable and the indigenous Banabans were relocated to Rabi Island in Fiji Katerina Martina Teaiwa tells the story of this human and ecological calamity by weaving together memories records and images from displaced islanders colonial administrators and employees of the mining company Her compelling narrative reminds us of what is at stake whenever the interests of industrial agriculture and indigenous minorities come into conflict The Banaban experience offers insight into the plight of other island peoples facing forced migration as a result of human impact on the environment

Miners' Lung Arthur McIvor, Ronald Johnston, 2016-04-22 Arthur McIvor and Ronald Johnston explore the experience of coal miners lung diseases and the attempts at voluntary and legal control of dusty conditions in British mining from the late nineteenth century to the present In this way the book addresses the important issues of occupational health and safety within the mining industry issues that have been severely neglected in studies of health and safety in general The authors examine the prevalent diseases notably pneumoconiosis emphysema and bronchitis and evaluate the roles of key players such as the doctors management and employers the state and the trade unions Throughout the book the integration of oral testimony helps to elucidate the attitudes of workers and victims of disease their machismo work culture and socialisation to very high levels of risk on the job

as well as how and why ideas and health mentalities changed over time This research taken together with extensive archive material provides a unique perspective on the nature of work industrial relations the meaning of masculinity in the workplace and the wider social impact of industrial disease disability and death The effects of contracting dust disease are shown to result invariably in seriously prescribed lifestyles and encroaching isolation The book will appeal to those working on the history of medicine industrial relations social history and business history as well as labour history *Leibniz in His World* Audrey Borowski, 2024-11-12 A sweeping intellectual biography that restores the Enlightenment polymath to the intellectual scientific and courtly worlds that shaped his early life and thought Described by Voltaire as perhaps a man of the most universal learning in Europe Gottfried Wilhelm Leibniz 1646 1716 is often portrayed as a rationalist and philosopher who was wholly detached from the worldly concerns of his fellow men Leibniz in His World provides a groundbreaking reassessment of Leibniz telling the story of his trials and tribulations as an aspiring scientist and courtier navigating the learned and courtly circles of early modern Europe and the Republic of Letters Drawing on extensive correspondence by Leibniz and many leading figures of the age Audrey Borowski paints a nuanced portrait of Leibniz in the 1670s during his Paris sojourn as a young diplomat and in Germany at the court of Duke Johann Friedrich of Hanover She challenges the image of Leibniz as an isolated genius revealing instead a man of multiple identities whose thought was shaped by a deep engagement with the social and intellectual milieus of his time Borowski shows us Leibniz as he was known to his contemporaries enabling us to rediscover him as an enigmatic young man who was complex and all too human An exhilarating work of scholarship Leibniz in His World demonstrates how this uncommon intellect torn between his ideals and the necessity to work for absolutist states struggled to make a name for himself during his formative years **Architecture and Fire** Stamatis

Zografos, 2019-06-12 Architecture and Fire develops a conceptual reassessment of architectural conservation through the study of the intimate relationship between architecture and fire Stamatis Zografos expands on the general agreement among many theorists that the primitive hut was erected around fire locating fire as the first memory of architecture at the very beginning of architectural evolution Following the introduction Zografos analyses the archive and the renewed interest in the study of archives through the psychoanalysis of Jacques Derrida He moves on to explore the ambivalent nature of fire employing the conflicting philosophies of Gaston Bachelard and Henri Bergson to do so before discussing architectural conservation and the relationship between listed buildings the function of archives and the preservation of memories from the past The following chapter investigates how architecture evolves by absorbing and accommodating fire while the penultimate chapter examines the critical moment of architectural evolution the destruction of buildings by fire with a focus on the tragic disaster at London's Grenfell Tower in 2017 Zografos concludes with thoughts on Freud's drive theory He argues the practice of architectural conservation is an expression of the life drive and a simultaneous repression of the death drive which suggests controlled destruction should be an integral part of the conservation agenda Architecture and Fire is

founded in new interdisciplinary research navigating across the boundaries of architecture conservation archival theory classical mythology evolutionary theory thermodynamics philosophy and psychoanalysis It will be of interest to readers working in and around these disciplines

The Invention of Clouds Richard Hamblyn, 2002-08-03 Presents the story of Luke Howard an amateur meteorologist and his groundbreaking work that began with naming and classifying clouds

The Environment in Anthropology, Second Edition Nora Haenn, Richard Wilk, Allison Harnish, 2016-04-26 Presents ecology and current environmental studies from an anthropological point of view The Environment in Anthropology presents ecology and current environmental studies from an anthropological point of view From the classics to the most current scholarship this text connects the theory and practice in environment and anthropology providing readers with a strong intellectual foundation as well as offering practical tools for solving environmental problems Haenn Wilk and Harnish pose the most urgent questions of environmental protection How are environmental problems mediated by cultural values What are the environmental effects of urbanization When do environmentalists goals and actions conflict with those of indigenous peoples How can we assess the impact of environmentally correct businesses They also cover the fundamental topics of population growth large scale development biodiversity conservation sustainable environmental management indigenous groups consumption and globalization This revised edition addresses new topics such as water toxic waste neoliberalism environmental history environmental activism and REDD Reducing Emissions from Deforestation and Forest Degradation and it situates anthropology in the multi disciplinary field of environmental research It also offers readers a guide for developing their own plan for environmental action This volume offers an introduction to the breadth of ecological and environmental anthropology as well as to its historical trends and current developments Balancing landmark essays with cutting edge scholarship bridging theory and practice and offering suggestions for further reading and new directions for research The Environment in Anthropology continues to provide the ideal introduction to a burgeoning field

Science of the Magical Matt Kaplan, 2016-10-25 From the author of The Science of Monsters this engaging scientific inquiry provides a definitive look into the elements of mystical places and magical object from the philosopher's stone to love potions to the oracles from ancient history mythology and contemporary culture Can migrations of birds foretell our future Do phases of the moon hold sway over our lives Are there sacred springs that cure the ill What is the best way to brew a love potion How do we create mutant humans who regenerate like Wolverine In Science of the Magical noted science journalist Matt Kaplan plumbs the rich lively and surprising history of the magical objects places and rituals that infuse ancient and contemporary myth Like Ken Jennings and Mary Roach Kaplan serves as a friendly armchair guide to the world of the supernatural From the strengthening powers of Viking mead to the super soldiers in movies like Captain America Kaplan ranges across cultures and time periods to point out that there is often much more to these enduring magical narratives than mere fantasy Informative and entertaining Science of the Magical explores our world through the compelling scope of natural and human history and

cutting edge science The Cambridge Companion to American Gay and Lesbian Literature Scott Herring, 2015-05-19 This Companion examines the connections between LGBTQ populations and American literature from the late eighteenth to twenty first centuries It surveys primary and secondary writings under the evolving category of gay and lesbian authorship and incorporates current thinking in US based LGBTQ studies as well as critical practices within the field of American literary studies This Companion also addresses the ways in which queerness pervades persons texts bodies and reading while paying attention to the transnational component of such literatures In so doing it details the chief genres conventional historical backgrounds and influential interpretive practices that support the analysis of LGBTQ literatures in the United States

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