

GREAT BALLS **Of** **FIRE**

A unified theory



of ball Lightning, UFOs, Tunguska and other
anomalous lights

PETER F COLEMAN

Great Balls Of Firea Unified Theory Of Ball Lightningufos Tunguska And Other Anomalous Lights

Vladimir Torchigin,A. V. Torchigin



Great Balls Of Firea Unified Theory Of Ball Lightningufos Tunguska And Other Anomalous Lights:

Great Balls of Fire Peter F. Coleman,2004 The book describes the discovery of a scientific theory for fireball objects seen in the sky including ball lightning and a type of UFO For centuries these lights have been seen without a satisfactory explanation Ball lightning is part of that mystery but easily explained by Coleman s vortex fireball theory which hypothesizes the existence of aerial burners in the sky The theory suggests vortices can combust a fuel within the confines of vortex breakdown of a vortex This idea was published by the author in scientific sources and has been demonstrated experimentally at a University facility This could be the definitive solution Observations are cited from the literature that show that such a previously unrecognised scientific phenomenon does exist This unified theory clarifies other puzzles such as the Tunguska meteor and gives a coherent explanation of ball lightning as a small fiery vortex

The Ultimate Collection on UFOs compiled from Wikipedia entries and published by by Dr Googelberg,2012-06-11 Lots of information on sightings and everything from a scientific angle about them Compiled from Wikipediapages and published by DrGoogelberg *Global Aerospace Monitoring and Disaster Management* Valery A. Menshikov,Anatoly N. Perminov,Yuri M. Urlichich,2011-10-15 In this book space systems are situated in the global processes of the 21st century s information society and the role that space information systems could play in risk management is determined methods of detecting and forecasting of both natural disasters and technogenic catastrophes and existing global and regional monitoring systems are described and the IGMASS is introduced with its architecture and design concept and social and economic aspects and estimates of its creation development and utilization Finally results of the international symposium held in Limassol Cyprus in November 2009 in preparation of the IGMASS project s submission to the United Nations are discussed

Science Of Ball Lightning (Fire Ball) Yoshi-hiko Ohtsuki,1989-08-01 This is the first proceedings held on scientific research on the ball lightning fire ball Eyewitness accounts of bars lightnings were presented and analysed by experts from USA Germany USSR Hungary and Japan The theoretical model on the ball lightning and experimental research from various instruments were discussed

Ball Lightning as a Messenger from a New World of Circulating Light Vladimir Torchigin,A. V. Torchigin,2023-11-01 This book shows that ball lightning has nothing to do with electricity at all it is a bubble where ordinary white light circulates in the bubble s shell in all possible directions Such a bubble of light is a completely new previously unknown object consisting mainly of light which determines its anomalous behaviour Such anomalous behaviour coincides in detail with the mysterious and paradoxical behaviour of natural ball lightning This book argues that natural ball lightning is an experimental sample which confirms this theory In the book the necessary conditions for the stability of the bubble of light and the physical laws that ensure its stability are given making it possible to determine its unique physical parameters The book is based on over 30 scientific articles published in leading international journals since 2003

The Nature of Ball Lightning Stanley Singer,2012-12-06 In 1837 a comprehensive discussion of lightning appeared in the Annual of the French Bureau des

Longitudes with a section on ball lightning which provided for the first time a readily available source in the scientific literature of the basic properties of this curious natural phenomenon The author Francois Arago was the dominant influence in the French Academy of Sciences in the nineteenth century having become a member of that august body at the age of twenty three His attention alone doubtless served at that time to establish the validity of scientific interest in the problem In addition his discussion covered some of the major questions associated with ball lightning in a notably clear sighted effective style Later reconsideration of the same questions often provided no significant improvement over Arago's discussion There followed a dauntless band of varying but always small number who attempted to account for an apparently simple natural occurrence a ball of fire usually seen in thunderstorms with the best knowledge that advancing science could provide All attempts to deal with this phenomenon were in variably frustrated The characteristics of ball lightning could be readily cataloged but they firmly resisted both experimental reproduction and theoretical explanation One may say that to this day there is no explanation accepted by a large number of scientists Several investigators of great ability and considerable accomplishment in different fields of science including Faraday Kelvin and Arrhenius took note of the problem

Ball Lightning Mark Stenhoff, 2005-12-16 Down comes a deluge of sonorous hail Or prone descending rain Wide rent the clouds Pour a whole flood and yet its flame unquenched The unconquerable lightning struggles through Ragged and fierce or in red whirling balls And fires the mountains with redoubled rage Black from the stroke above the smouldering pine Stands a sad shattered trunk and stretched below A lifeless group the blasted cattle lie James Thompson The Seasons 1727 have been investigating ball lightning for more than two decades I published a ball lightning report in Nature in 1976 that received worldwide publicity and I consequently many people wrote to me with accounts of their own experiences Within a very short time I had accumulated about 200 firsthand accounts and the file has continued to grow steadily since then Several things impressed me Few of those who wrote to me had any detailed foreknowledge of ball lightning at the time of their observation Nonetheless once reports of other phenomena such as St Elmo's fire had been eliminated the remaining descriptions were remarkably consistent Furthermore nearly all who contacted me were keen to have an explanation of what they had seen and seemed entirely sincere

The Mystery of Ball Lightning Revealed Vladimir Torchigin, 2024-10-28 In this book the consequences of a perfectly new natural phenomenon associated with the existence of self confined circulating light which is responsible for the paradoxical behavior and anomalies of ball lightning are considered It is shown that similar phenomena can exist in the microworld which makes it possible to explain the finite lifetime of microworld objects their wave properties mutual attraction and the possibility of energy exchange between nuclei without overcoming the Coulomb barrier The latter possibility allows the extraction of nuclear energy using circulating light Several options for nuclear power plants are given where nuclear fuel is ordinary water The book is based on over 80 scientific articles published in leading international scientific journals in physics and optics

The Taming of the Thunderbolts Cecil Maxwell Cade, Delphine Davis, 1969

Attempted Explanations of Ball Lightning Edmond M. Dewan, 1964 Ball lightning has until this time defied physical explanation This report summarizes the requirements that must be satisfied by any valid theory reviews and evaluates previous theories and evaluates the new theory of Finkelstein and Rubenstein developed under an AFCRL monitored grant It is concluded that the latter theory is the only promising one to date but that even this theory needs to be modified A modification is proposed which would remove the remaining objections and it is suggested that experiments rather than further theoretical development will constitute the next decisive step Artificial Ball Lightnings V. Torchigin, 2015-04-30 A survey of two century attempts to produce Ball Lightning in a laboratory with respect to understanding that Ball Lightning nature is optical one is presented The Ball Lightning can be imagined as the soap bubble where the soap film is replaced by the film of strongly compressed air The conventional white light is circulating in the film in all possible directions The film shows itself as a planar wave guide the curvature of which is different from zero The wave guide prevents the radiation of the light in free space In turn the light compresses the air due to the electrostriction pressure This combination is closer to the light rather than to the lightning We cut the tail in the world lightning and will call this combination by Ball Light The energy of the light is essentially greater than that of the compressed air In this case the behavior of the Ball Light is determined by the forces connected with the light rather than by the conventional forces connected with material particles Said forces were considered in numerous hypotheses but all attempts to explain the mysterious behavior of the Ball Lightning failed On the contrary we have succeeded to explain all features of the Ball Lightning behavior on assumption that the forces between the light and matter play a decisive role Our theory is mentioned in Wikipedia All intriguing puzzles of the Ball Lightning behavior are explained in a natural way We show in the book that puzzling anomalous ball shaped formations obtained in 19 and begin of 20 centuries can be considered as the Ball Lights with small lifetime because they disappear immediately after ceasing a gas discharge Objects with the lifetime of several seconds have been obtained in the second half of 20 century Bearing in mind properties of the Ball Lights anomalous properties of such objects are explained An explanation is presented why an erosive gas discharge is favorable for production of the objects A survey of up to date attempts of production of similar objects with the lifetime about 10 s is presented Schemes of setups for production laboratory ball lightning with the great lifetime and stored energy comparable to natural ones are considered We have shown that laboratory anomalous objects are not natural Ball Lightning observed and described by eyewitnesses But the anomalies of the natural Ball Lightnings and autonomous objects are explained by the same physical phenomenon connected with the circulation of the intensive light along side surface Thus a behaviour and properties of the considered autonomous objects confirms out optical theory of natural Ball Lightnings

The Mystery of the Tunguska Fireball Surendra Verma, 2014-07-02 At 7 14 a m on June 30 1908 a huge fireball exploded in the Siberian sky A thousand times the force of the Hiroshima atomic bomb it flattened an area of remote Tunguska forest bigger than metropolitan New York forming a mushroom cloud that almost

reached into space What was it A wayward black hole a crashing comet an rogue asteroid an exotic rock of antimatter or mirror matter a methane gas blast from below an alien spacecraft a laser beam fired by extraterrestrials or an early experiment in nuclear physics which got out of hand A century on this grand dame of science mysteries still fascinates scientists and charlatans alike Australian science journalist and author Surendra Verma tells the incredible story of this famous fireball He also examines the major theories scientific and fanciful and evaluates the new evidence that claims that the mystery has at last been solved Or is it

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Natural and Artificial Ball Lightning in the Earth's Atmosphere Vladimir L. Bychkov, 2022-08-23 The monograph is devoted to ball lightning BL observed in natural conditions in the air and artificial BL long lived luminous formations LLF usually obtained in laboratories experimentally Joint consideration of artificial and natural BL emphasizes the need for a comprehensive analysis of such complex objects It is the description of the study of the properties of artificial BL and LLF in the end of 20th and 21st centuries that allows the reader to better understand what and how can be experimentally simulated

Ball Lightning RITCHIE DONALD J., 1995-12-31 *Lightning Balls* William Brown, AI, 2025-03-10 *Lightning Balls* explores the captivating and mysterious phenomenon of ball lightning a rare and elusive atmospheric event that has puzzled scientists for ages This book tackles the challenges of defining and reliably identifying these occurrences examining current scientific theories and addressing why replicating them in labs is so difficult Understanding ball lightning could revolutionize our knowledge of atmospheric physics and potentially lead to breakthroughs in energy storage and plasma technology The book begins with a historical overview tracing accounts from folklore to scientifically documented observations and introduces the physics concepts needed to grasp the theories surrounding ball lightning It argues that the most promising explanations involve a combination of atmospheric electric fields aerosol composition and plasma physics Did you know that some theories propose ball lightning involves microwave cavities or oxidizing aerosols Or that analyzing spectral data can help determine the composition and energy levels within these floating spheres Structured to provide a comprehensive overview *Lightning Balls* systematically examines the leading theories including their supporting evidence and limitations It analyzes attempts to create ball lightning in the lab highlighting both successes and failures and explores potential applications in areas like controlled fusion By drawing upon atmospheric physics plasma physics and material science the book offers a contemporary perspective on this unexplained phenomena making it a valuable resource for anyone interested in science physics and the mysteries of our atmosphere

BALL LIGHTNING AS A MESSENGER FROM A NEW WORLD OF CIRCULATING LIGHT. V.P. TORCHIGIN, 2023

Ball Lightning Characteristics Warren D. Rayle, 1966 Ball Lightning Herbert Boerner, 2019-07-03 Ball lightning is

an enigma These luminous objects that appear occasionally during thunderstorms and can reach several meters in diameter have been a mystery to science for about 200 years Despite several thousands of reported observations their nature is still unknown In this book well documented cases of ball lightning are described and used to unravel some aspects of this mysterious form of atmospheric electricity Throughout the book the author discusses the various facets of the problem in an accessible but rigorous style delivering a readable and informative text that will captivate the curious reader He finally reaches the surprising conclusion that the solution to this puzzle may have been hidden in plain sight for many years A foreword by Earle Williams leading lightning researcher at MIT introduces the book *The World of Circulating Light Where Ball Lightnings Live* Vladimir Torchigin, 2022-10-10 The book describes a completely new world the existence of which no one had even suspected before Therefore this world could not be studied either theoretically or experimentally The study of the nature of ball lightning made it possible to discover this world Pyotr Kapitsa a Russian scientist Nobel Prize winner studying the phenomenon of ball lightning was forced to admit at the end of his life that this bright nut was too strong for his teeth At the same time he suggested that ball lightning is a phenomenon from another world unknown to him Indeed he was partly right He was wrong that ball lightning was related to plasma but he was right that ball lightning belonged to another world unknown to him The book describes the features of this world and the properties of its inhabitants The most known among them is ball lightning This world we called the world of circulating light This book is not science fiction The book is based on over eight dozen articles published since 2003 in leading international physics and optics journals Although scientists have not been able to unravel the nature of ball lightning for many centuries it turned out that the explanation is so simple that it is accessible to schoolchildren Such an explanation can be given without a single formula recalling only the well known physical laws from the school curriculum

Ball Lightning Physics V Torchigin, 2019-12-05 It is generally recognized that the Ball Lightning BL is a shame of modern theoretical and experimental physics At present above 2000 publications are known above 200 various theories are suggested But nobody can explain even approximately the intriguing and puzzling behavior of BLs As is market in last book of BL all theories have one thing in common none work The explanation of the BL phenomenon is deadlocked There is an opinion that the contemporary knowledge about Nature is insufficient to explain the BL We are trying to show that the knowledge is sufficient but its usage leaves much to be desired BL problem is an example when a common sense overcomes the conclusion derived from generally accepted physical laws in spite of the fact that the conclusion is confirmed by the phenomenon observed by thousands of eyewitnesses In 2002 we put forward the hypothesis that neither plasma nor other material particles form BL In is immutable fact that BL radiates the light We concluded that BL consists of the light only But it is known that the light is an electromagnetic wave that propagates in a straight line in a homogeneous optical medium at very great speed We assumed that the light can propagate along curve closed trajectories that are embedded in a sphere of several centimeters radius But what is the reason that forces the light to

propagate in such a way Our answer the reason is the light itself The light can be self confined Seemingly this is an oxymoron like dry water or hot ice But the contemporary knowledge allows an existence of the self confined light This is an optical space soliton that can be considered as the light that is self confined in one direction Once the light can be self confined in one direction it can be self confined in other two directions also Thus the contemporary theoretical knowledge does not prevent an existence of the light confined by a limited volume As a result BL obeys to laws of optics rather than laws of mechanics That is why BL behavior differs radically from that of the conventional material objects consisting of molecules electrons ions clusters nano particles and so on We have published about ten papers in International scientific physical journals where we have shown that the behavior of the self confined light determined by known laws of optics and physics is identical to intriguing and puzzling behavior of natural BL derived from numerous evidence of eyewitnesses We have explained how BL can penetrate in rooms through window panes why BL can move upwind how BL can catch up a flying aircraft and penetrate into its cabin It is not surprising that BL seems not hot although it radiates the light the spectrum of which corresponds to the temperature of the body heated up to several thousand degrees Celsius However our theory has not gained a generally accepted recognition even though it is mentioned in Wikipedia We analyze the causes and came to the conclusion that common sense layman in the field of optics protests against the existence of SCL in nature They consider the self confined light as an oxymoron like dry water or hot ice As far as experts in optics is concerned that we need to recognize that the contemporary notions about optically induced forces that are foundation of our theory are incomplete and erroneous In last five years we have published about ten papers in the international scientific physical journals where we presented our notion of optically induced forces In particular we have solved the known century old problem of the theoretical physics about a magnitude of the momentum of light in matter All these problems are presented in the book in a systematic form

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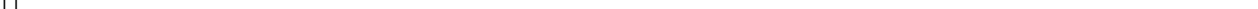
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