

How the Laser Happened

ADVENTURES OF A SCIENTIST

Charles H. Townes



How The Laser Happened Adventures Of A Scientist

SJ Ball



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Townes, 2002-02-28 In *How the Laser Happened* Nobel laureate Charles Townes provides a highly personal look at some of the leading events in twentieth century physics Townes was inventor of the maser of which the laser is one example an originator of spectroscopy using microwaves and a pioneer in the study of gas clouds in galaxies and around stars

Throughout his career he has also been deeply engaged with issues outside of academic research He worked on applied research projects for Bell Labs served on the board of directors for General Motors and devoted extensive effort to advising the government on science policy and defense This memoir traces his multifaceted career from its beginnings on the family farm in South Carolina Spanning decades of ground breaking research the book provides a hands on description of how working scientists and inventors get their ideas It also gives a behind the scenes look at the scientific community showing how scientists respond to new ideas and how they approach a variety of issues from priority and patents to the social and political implications of their work In addition Townes touches on the sociology of science uncovering some of the traditions and values that are invisible to an outsider A towering and energetic figure Townes has explored or pioneered most of the roles available to the modern scientist In addition to fundamental research he was actively involved in the practical uses of the laser and in the court cases to defend the patent rights He was a founding member of the JASONs an influential group of scientists that independently advises the government on defense policy and he played an active part in scientific decisions and policies from the Truman through the Reagan administration This lively memoir packed with first hand accounts and historical anecdotes is an invaluable resource for anyone interested in the history of science and an inspiring example for students considering scientific careers

Scientific Journeys H. Frederick Dylla, 2020-09-26 This collection of essays traces a scientific journey bookmarked by remarkable mentors and milestones of science It provides fascinating reading for everyone interested in the history public appreciation and value of science as well as giving first hand accounts of many key events and prominent figures The author was one of the sputnik kids growing up in the US at the start of the space age He built a working laser just two years after they were first invented an experience that convinced him to become a physicist During his 50 year career in physics many personalities and notable events in science and technology helped to form his view of how science contributes to the modern world including his conviction that the impact of science can be most effective when introduced within the context of the humanities especially history literature and the arts From the Foreword by former U S Congressman Rush D Holt In this volume we have the wide ranging thoughts and observations of Fred Dylla an accomplished physicist with an engineer's fascination for gadgets a historian's long perspective an artist's aesthetic eye and a teacher's passion for sharing ideas Throughout his varied career his curiosity has been his foremost characteristic and his ability to see the connection between apparently disparate things his greatest skill Here he examines the roots and growth of

innovation in examples from Bell Laboratories Edison Electric Light Company and cubist painter Georges Braque He considers the essential place of publishing in science that epochal intellectual technique for learning how the world works He shows the human enrichment and practical benefits that derive from wise investments in scientific research as well as the waste resulting from a failure to embrace appropriate technologies

The Physics of Laser Plasmas and Applications - Volume 1 Hideaki Takabe, 2020-08-28 The series of books discusses the physics of laser and matter interaction fluid dynamics of high temperature and high density compressible plasma and kinetic phenomena and particle dynamics in laser produced plasma The book Vol 1 gives the physics of intense laser absorption in matter and or plasma in non relativistic and relativistic laser intensity regime In many cases it is explained with clear images of physics so that an intuitive understanding of individual physics is possible for non specialists For intense laser of 10^{13} to 10^{16} W cm² the laser energy is mainly absorbed via collisional process where the oscillation energy is converted to thermal energy by non adiabatic Coulomb collision with the ions Collisionless interactions with the collective modes in plasma are also described The main topics are the interaction of ultra intense laser and plasma for the intensity near and over 10^{18} W cm² In such regime relativistic dynamics become essential A new physics appears due to the relativistic effects such as mass correction relativistic nonlinear force chaos physics of particle motions and so on The book provides clearly the theoretical base for challenging the laser plasma interaction physics in the wide range of power lasers It is suitable as a textbook for upper undergraduate and graduate students as well as for readers who want to understand the whole physics structure about what happen when an intense laser irradiates any materials including solids gas etc Explaining the physics intuitively without complicated mathematics it is also a valuable resource for engineering students and researchers as well as for self study

Vacuum Electronics Joseph A. Eichmeier, Manfred Thumm, 2008-03-04 Nineteen experts from the electronics industry research institutes and universities have joined forces to prepare this book It does nothing less than provide a complete overview of the electrophysical fundamentals the present state of the art and applications as well as the future prospects of microwave tubes and systems The book does the same for optoelectronics vacuum devices electron and ion beam devices light and X ray emitters particle accelerators and vacuum interrupters

Beam Line, 2000 **Lectures on Quantum Mechanics** Jean-Louis Basdevant, 2023-02-02 Beautifully illustrated and engagingly written Twelve Lectures in Quantum Mechanics presents theoretical physics with a breathtaking array of examples and anecdotes Basdevant's style is clear and stimulating in the manner of a brisk lecture that can be followed with ease and enjoyment Here is a sample of the book's style from the opening of Chapter 1 If one were to ask a passer by to quote a great formula of physics chances are that the answer would be $E = mc^2$ There is no way around it all physics is quantum from elementary particles to stellar physics and the Big Bang not to mention semiconductors and solar cells

The Pontecorvo Affair Simone Turchetti, 2012-02-15 This book examines the life and motivations behind Italian born nuclear physicist and alleged spy Bruno Pontecorvo and his reasons for defecting to the

Soviet Union in 1950 **The Martians of Science** István Hargittai, 2008 Hargittai tells the story of five remarkable Hungarians Wigner won a Nobel Prize in theoretical physics Szilard was the first to see that a chain reaction based on neutrons was possible initiated the Manhattan Project but left physics to try to restrict nuclear arms von Neumann could solve difficult problems in his head and developed the modern computer for more complex problems von Kármán became the first director of NASA's Jet Propulsion Laboratory providing the scientific basis for the U S Air Force and Teller was the father of the hydrogen bomb whose name is now synonymous with the controversial Star Wars initiative of the 1980s

Fundamentals Of Laser Physics Kyungwon An, 2023-02-02 This book is intended as a textbook on laser physics for advanced undergraduates and first year graduate students in physics and engineering who need to use lasers in their labs and want to understand the physical processes involved with the laser techniques in their fields of study This book aims to provide a coherent theoretical framework on the light matter interaction involved with lasers in such a way that students can easily understand the essential topics related to lasers and their applications and get accustomed to the latest cutting edge research developments Most of all the content of this book is concise to be covered in a semester *Eureka* Gavin Weightman, 2015-01-01 While the discoveries of scientists have provided vital knowledge which has made innovation possible it is more often than not the amateur who enjoys the eureka moment when an invention works for the first time Weightman tells fascinating stories of struggle rivalry and the ingenuity of both famous inventors and hundreds of forgotten people and offers a fresh take on the making of our modern world One Hundred Patents That Shaped the Modern World David Segal, 2019-02-07 What would our world today be like without inventions like tarmac aspirin liquid crystals and barbed wire This guide shows how patents and the inventions they describe have shaped the 21st century It gives us insights into the inventions big and small that have had huge impacts many unexpected on multiple spheres of our lives from popular culture and entertainment to global health to transportation to the waging of war It features patent documents that date from the mid 19th century to the present Patent documents describe inventions and represent an accurate and rich source of information about the history and current state of modern technology as patents are examined and their accuracy can be challenged The subject matter covers many technical areas Patents discussed include for example Morse code the diode triode transistors television frozen foods ring pull for soft drink cans board games such as Monopoly gene editing metamaterials MRI computerised tomography insulin and monoclonal antibodies such as Herceptin The text is illustrated with drawings adapted from the original patent documents Patent numbers are included to allow interested readers to trace the documents Inventions described in the patents are placed in historical perspective For example the book discusses the role of the cavity magnetron and radar in World War II and the influence of the diode on the development of broadcasting at the beginning of the 20th century **Beam Line: Summer Fall 2000, Vol. 30, No. 2** , Beam Jeff Hecht, 2005-03-10 In 1954 Charles Townes invented the laser's microwave cousin the maser The next logical step was to extend the same physical

principles to the shorter wavelengths of light but the idea did not catch fire until October 1957 when Townes asked Gordon Gould about Gould's research on using light to excite thallium atoms. Each took the idea and ran with it. The independent-minded Gould sought the fortune of an independent inventor; the professorial Townes sought the fame of scientific recognition. Townes enlisted the help of his brother-in-law Arthur Schawlow and got Bell Labs into the race. Gould turned his ideas into a patent application and a million-dollar defense contract. They soon had company. Ali Javan, one of Townes's former students, began pulling 90-hour weeks at Bell Labs with colleague Bill Bennett. And far away in California, a bright young physicist named Ted Maiman became a very dark horse in the race. While Schawlow proclaimed that ruby could never make a laser, Maiman slowly convinced himself it would. As others struggled with recalcitrant equipment and military secrecy, Maiman built a tiny and elegant device that fit in the palm of his hand. His ruby laser worked the first time he tried it on May 16, 1960, but afterwards he had to battle for acceptance as the man who made the first laser. Beam is a fascinating tale of a remarkable and powerful invention that has become a symbol of modern technology.

[Zero Index Metamaterials](#) Nishant Shankhwar, Ravindra Kumar Sinha, 2021-03-19 This book presents the emerging regime of zero refractive index photonics involving metamaterials that exhibit effectively zero refractive index. Metamaterials are artificial structures whose optical properties can be tailored at will. With metamaterials intriguing and spellbinding phenomena like negative refraction and electromagnetic cloaking could be realized which otherwise seem unnatural or straight out of science fiction. Zero index metamaterials are also seen as a means of boosting nonlinear properties and are believed to have strong prospects for being useful in nonlinear optical applications. In summary, this book highlights almost everything currently available on zero index metamaterials and is useful for professionally interested and motivated readers.

A Century of Nature Laura Garwin, Tim Lincoln, 2010-03-15 Many of the scientific breakthroughs of the twentieth century were first reported in the journal *Nature*. *A Century of Nature* brings together in one volume *Nature*'s greatest hits: reproductions of seminal contributions that changed science and the world accompanied by essays written by leading scientists, including four Nobel laureates, that provide historical context for each article, explain its insights in graceful accessible prose, and celebrate the serendipity of discovery and the rewards of searching for needles in haystacks.

Sensing with Terahertz Radiation Daniel Mittleman, 2013-02-26 One aspect of the field of THz radiation is the marriage of microwave and optical techniques. By its very nature, THz radiation bridges the gap between the microwave and optical regimes. The former can be characterized by the fact that most devices are comparable in size to the wavelength of the radiation. As a result, the propagation of energy in these devices is generally in the form of single-mode or low-order mode guided waves. In contrast, the optical and infrared ranges are generally characterized by beams containing many modes with dimensions much larger than the wavelength. Of course, there are exceptions to these rules; notably, the single-mode propagation of optical radiation in fibers. Nonetheless, the general description holds true. Because of these fundamental differences, it is natural that the techniques used in their

implementation are quite distinct Much of the research in the THz field has been based on the melding of these disparate ideas

History Of Modern Optics And Optoelectronics Development In China Shouyun Tan,2014-06-11 This book presents a collection of memoir papers on the development of modern and contemporary optics and optoelectronics in China from the 18th to 20th centuries The papers were written by famous scientists in China including members of the Chinese Academy of Sciences and the Chinese Academy of Engineering sharing their experience in different fields of optics and optoelectronics development This is a unique book in understanding the natural science history of optics and optoelectronics It gives you the general idea about how the western optical science spread to China in the 17th to 18th century the cradle of the contemporary optics in China Birth development and application of lasers in China high energy and high power lasers for laser antiballistic missile and laser nuclear fusion development of Chinese optical communication and optical information storage laser and infrared optics research for space science development of Chinese optical instruments etc

Extreme Nonlinear Optics Martin Wegener,2006-03-30 Following the birth of the laser in 1960 the field of nonlinear optics rapidly emerged Today laser intensities and pulse durations are readily available for which the concepts and approximations of traditional nonlinear optics no longer apply In this regime of extreme nonlinear optics a large variety of novel and unusual effects arise for example frequency doubling in inversion symmetric materials or high harmonic generation in gases which can lead to attosecond electromagnetic pulses or pulse trains Other examples of extreme nonlinear optics cover diverse areas such as solid state physics atomic physics relativistic free electrons in a vacuum and even the vacuum itself This book starts with an introduction to the field based primarily on extensions of two famous textbook examples namely the Lorentz oscillator model and the Drude model Here the level of sophistication should be accessible to any undergraduate physics student Many graphical illustrations and examples are given The following chapters gradually guide the student towards the current state of the art and provide a comprehensive overview of the field Every chapter is accompanied by exercises to deepen the reader s understanding of important topics with detailed solutions at the end of the book

Quantum Mechanics Jean-Louis Basdevant,Jean Dalibard,2006-05-16 This course on quantum mechanics offers a fresh and modern approach to the field It is a textbook on the principles of the theory its mathematical framework and its first applications It consistently refers to modern and practical developments such as tunneling microscopy quantum information Bell inequalities quantum cryptography Bose Einstein condensation and quantum astrophysics The book contains 92 exercises with their solutions Supplementary material on extras.springer.com contains outstanding and easy access Java based simulations which illustratively help the user to better understand how the theory actually operates It also contains a variety of links where one can discover updated applications and further readings A complementary book The Quantum Mechanics Solver guides students to applying the theory developed here to research problems in atomic and molecular physics condensed matter and laser physics

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