

THE  
LASER  
IN  
AMERICA

1950-1970

JOAN

LISA

BROMBERG

# The Laser In America 1950 1970

**Jon Agar**



## **The Laser In America 1950 1970:**

**The Laser in America, 1950-1970** Joan Lisa Bromberg, 1991 In this book Joan Lisa Bromberg brings a historian's broad perspective to bear on the formative years of laser research in the United States *Einstein's Unfinished Symphony* Marcia Bartusiak, 2017-06-27 This updated edition of the New York Times Notable Book recounts the long hunt for Einstein's predicted gravitational waves and celebrates their discovery In February 2016 astronomers announced that they had verified the last remaining prediction of Einstein's general theory of relativity vibrations in space time called gravitational waves Humanity can now tune in to a cosmic orchestra We have heard the chirp of two black holes dancing toward a violent union We will hear the cymbal crashes from exploding stars the periodic drumbeats from swiftly rotating pulsars and maybe even the echoes from the Big Bang itself More than a decade earlier Marcia Bartusiak chronicled the gamble taken by astronomers who were determined to prove Einstein right In their quest to detect gravitational waves they built the Laser Interferometer Gravitational Wave Observatory LIGO detectors the most accurate measuring devices ever created In this updated edition Bartusiak brings the story to a thrilling close with the triumphant discovery of gravitational waves made with the LIGO An important multifaceted scientific story part theoretical physics part astronomy part experimental physics part engineering James Ryerson New York Times Book Review

**Strange Stability** Assistant Professor of the History of Science Benjamin Wilson, Benjamin Wilson, 2025-11-18 Strategic stability is admired as the basis of arms control but the doctrine is not what is commonly assumed Benjamin Wilson shows that its early promoters falsely asserted their own objectivity and developed a logic that actually perpetuated the nuclear arms race benefiting the military industrial complex that commanded their loyalty

**Restricted Data** Alex Wellerstein, 2024-05-31 Groundbreaking Wellerstein peels back the layers of the nuclear onion to reveal a rich debate about what should be kept secret and why Nature The first full history of US nuclear secrecy from its origins in the late 1930s to our post Cold War present The American atomic bomb was born in secrecy From the moment scientists first conceived of its possibility to the bombings of Hiroshima and Nagasaki and beyond there were efforts to control the spread of nuclear information and the newly discovered scientific facts that made such powerful weapons possible The totalizing scientific secrecy that the atomic bomb appeared to demand was new unusual and very nearly unprecedented It was foreign to American science and American democracy and potentially incompatible with both From the beginning this secrecy was controversial and it was always contested The atomic bomb was not merely the application of science to war but the result of decades of investment in scientific education infrastructure and global collaboration If secrecy became the norm how would science survive Drawing on troves of declassified files including records released by the government for the first time through the author's efforts Restricted Data traces the complex evolution of the US nuclear secrecy regime from the first whisper of the atomic bomb through the mounting tensions of the Cold War and into the early twenty first century A compelling history of powerful ideas at war it tells a story that feels distinctly American rich

sprawling and built on the conflict between high minded idealism and ugly fearful power Wellerstein examines the health of democracy in the face of big science big government and big weapons Science *Lonely Ideas* Loren Graham,2013-09-13 An expert investigates Russia s long history of technological invention followed by commercial failure and points to new opportunities to break the pattern When have you gone into an electronics store picked up a desirable gadget and found that it was labeled Made in Russia Probably never Russia despite its epic intellectual achievements in music literature art and pure science is a negligible presence in world technology Despite its current leaders ambitions to create a knowledge economy Russia is economically dependent on gas and oil In *Lonely Ideas* Loren Graham investigates Russia s long history of technological invention followed by failure to commercialize and implement For three centuries Graham shows Russia has been adept at developing technical ideas but abysmal at benefiting from them From the seventeenth century arms industry through twentieth century Nobel awarded work in lasers Russia has failed to sustain its technological inventiveness Graham identifies a range of conditions that nurture technological innovation a society that values inventiveness and practicality an economic system that provides investment opportunities a legal system that protects intellectual property a political system that encourages innovation and success Graham finds Russia lacking on all counts He explains that Russia s failure to sustain technology and its recurrent attempts to force modernization reflect its political and social evolution and even its resistance to democratic principles But Graham points to new connections between Western companies and Russian researchers new research institutions a national focus on nanotechnology and the establishment of Skolkovo a new technology city Today he argues Russia has the best chance in its history to break its pattern of technological failure *State of Innovation* Fred L. Block,Matthew R. Keller,2015-11-17 The worst economic crisis since the Great Depression has generated a fundamental re evaluation of the free market policies that have dominated American politics for three decades *State of Innovation* brings together critical essays looking at the innovation industry in the context of the current crisis The book shows how government programs and policies have underpinned technological innovation in the US economy over the last four decades despite the strength of free market political rhetoric The contributors provide new insights into where innovations come from and how governments can support a dynamic innovation economy as the US recovers from a profound economic crisis *State of Innovation* outlines a 21st century policy paradigm that will foster cutting edge innovation which remains accountable to the public *General Purpose Technology, Spin-Out, and Innovation* Hiroshi Shimizu,2019-05-17 This book focuses on exploring the relationship between spin outs from incumbents and the patterns of innovation in general purpose technology Do spin outs really promote innovation What happens if star scientists leave the incumbents and establish a startup to target untapped markets Entrepreneurial spin outs have been recognized as an engine of innovation General purpose technology such as the steam engine in the Industrial Revolution has been considered an engine of growth This book provides new perspectives on how entrepreneurial spin outs shape the patterns of innovation in general purpose technology by integrating

theoretical findings in industrial organizations and includes innovation studies and detailed evidence from a longitudinal case study. Concretely by longitudinally exploring the technological development of laser diodes in the USA and Japan this study examines how the existence or absence of an entrepreneurial strategic choice for spin outs influences the patterns of subsequent technological development. The longitudinal analysis in this book shows that spin outs could hinder the subsequent development of existing technology when that technology is still at a nascent level because the cumulative effects of technological development could disappear if research and development personnel leave their parent firms in order to target different sub markets. The findings of this book show that institutional settings designed to promote spin outs do not necessarily promote innovation. The book offers novel theoretical insights into the relationship between institutions promoting spin outs and the developments of general purpose technology.

Between Making And Knowing: Tools In The History Of Materials Research Joseph D Martin, Cyrus Mody, 2020-06-16 This book is indexed in Chemical Abstracts Service. This book offers a comprehensive sketch of the tools used in material research and the rich and diverse stories of how those tools came to be. We aim to give readers a sense of what tools materials researchers required in the late 20th century and how those tools were developed and became accessible. The book is in a sense a collective biography of the components of what the philosopher of science Ian Hacking calls the instrumentarium of materials research. Readers should gain an appreciation of the work materials researchers put into developing and using such tools and of the tremendous variety of such tools. They should also gain some insight into the material and hence financial prerequisites for materials research. Materials research requires funding for the availability and maintenance of its tools and the category of tools encompasses a broad range of substances, apparatus, institutions and infrastructure.

**The History of the Laser** Mario Bertolotti, 2004-10-01 Since the invention of the first working laser in 1960 development of these devices has progressed at an unprecedented rate to the extent that the laser is now a common part of everyday life from the semiconductor laser used in CD players and telecommunication systems to the high power eximer lasers used in manufacturing processes. This book tra

Knowing Machines Donald A. MacKenzie, 1998 The essays are tied together by their explorations of connections primarily among technology, society and knowledge and by their general focus on modern high technology. They also share an emphasis on the complexity of technological formation and fixation and on the role of belief, especially self-validating belief in technological change.

To Hanoi and Back Wayne Thompson, 2014-07-15 After nearly eighteen months of the largely unsuccessful bombing campaign called Operation Rolling Thunder the US Air Force began to look for ways to overcome technological, geographical and political challenges in North Vietnam and use limited air power more effectively. In 1972 the two Linebacker campaigns joined with other air operations to make a dramatic although temporary difference. While they unleashed powerful B-52 area bombers the campaigns also demonstrated the efficacy of newly developed laser-guided precision bombs. Drawing upon twenty years of research in classified records Wayne Thompson integrates operational

political and personal detail to present a full history of the Air Force role in the war against North Vietnam. He provides an unprecedented view of the motivations and actions of the people involved from aircrews to generals to politicians in every phase of the air campaigns. He outlines for instance the political reasons for President Johnson's reluctance to use B-52 bombers against major North Vietnamese targets. He also examines how the media influenced US policy and how US prisoners became the war's most celebrated heroes. The war in Southeast Asia ultimately pushed the Air Force toward adopting more flexible tactics and incorporating increasingly sophisticated weapons that would shape later conflicts.

*Experimental Capitalism* Steven Klepper, 2015-12-29 How American industries rose to dominate the economic landscape in the twentieth century. For much of the twentieth century American corporations led the world in terms of technological progress. Why did certain industries have such great success? *Experimental Capitalism* examines six key industries: automobiles, pneumatic tires, television receivers, semiconductors, lasers, and penicillin, and tracks the highs and lows of American high-tech capitalism and the resulting innovation landscape. Employing nanoeconomics, a deep dive into the formation and functioning of companies, Steven Klepper determines how specific companies emerged to become the undisputed leaders that altered the course of their industry's evolution. Klepper delves into why a small number of firms came to dominate their industries for many years after an initial period of tumult, including General Motors, Firestone, and Intel. Even though capitalism is built on the idea of competition among many, he shows how the innovation process naturally led to such dominance. Klepper explores how this domination influenced the search for further innovations. He also considers why industries cluster in specific geographical areas, such as semiconductors in northern California, cars in Detroit, and tires in Akron. He finds that early leading firms serve as involuntary training grounds for the next generation of entrepreneurs who spin off new firms into the surrounding region. Klepper concludes his study with a discussion of the impact of government and the potential for policy to enhance a nation's high-tech industrial base. A culmination of a lifetime of research and thought, *Experimental Capitalism* takes a dynamic look at how new ideas and innovations led to America's economic primacy. *The DARPA Model for Transformative Technologies: Perspectives on the U.S. Defense Advanced Research Projects Agency* William Boone Bonvillian, Richard Van Atta, Patrick Windham, 2020-01-09 The authors have done a masterful job of charting the important story of DARPA, one of the key catalysts of technological innovation in US recent history. By plotting the development, achievements, and structure of the leading world agency of this kind, this book stimulates new thinking in the field of technological innovation with bearing on how to respond to climate change, pandemics, cyber security, and other global problems of our time. The DARPA Model provides a useful guide for governmental agency and policy leaders and for anybody interested in the role of governments in technological innovation. Dr. Kent Hughes, Woodrow Wilson International Center for Scholars. This volume contains a remarkable collection of extremely insightful articles on the world's most successful advanced technology agency. Drafted by the leading US experts on DARPA, it provides a variety of perspectives.

that in turn benefit from being presented together in a comprehensive volume It reviews DARPA's unique role in the U S innovation system as well as the challenges DARPA and its clones face today As the American model is being considered for adoption by a number of countries worldwide this book makes a welcome and timely contribution to the policy dialogue on the role played by governments in stimulating technological innovation Prof Charles Wessner Georgetown University The U S Defense Advanced Research Projects Agency DARPA has played a remarkable role in the creation new transformative technologies revolutionizing defense with drones and precision guided munitions and transforming civilian life with portable GPS receivers voice recognition software self driving cars unmanned aerial vehicles and most famously the ARPANET and its successor the Internet Other parts of the U S Government and some foreign governments have tried to apply the DARPA model to help develop valuable new technologies But how and why has DARPA succeeded Which features of its operation and environment contribute to this success And what lessons does its experience offer for other U S agencies and other governments that want to develop and demonstrate their own transformative technologies This book is a remarkable collection of leading academic research on DARPA from a wide range of perspectives combining to chart an important story from the Agency's founding in the wake of Sputnik to the current attempts to adapt it to use by other federal agencies Informative and insightful this guide is essential reading for political and policy leaders as well as researchers and students interested in understanding the success of this agency and the lessons it offers to others

**Path Dependence and Creation** Raghu Garud, Peter Karnoe, 2013-05-13 The editors aware of the recent work in evolutionary theory and the science of chaos and complexity challenge the sometimes deterministic flavor of this subject They are interested in uncovering the place of agency in these theories that take history so seriously In the end they are as interested in path creation and destruction as they are in path dependence This book is compiled of both theoretical and empirical writings It shows relatively well known industries such as the automobile biotechnology and semi conductor industries in a new light It also invites the reader to learn more about medical practices wind power lasers and synthesizers Primarily written for academicians researchers and Ph D students in fields related to technology management this book is research oriented and will appeal to all managers

*Science in the 20th Century and Beyond* Jon Agar, 2012-04-09 Science in the Twentieth Century and beyond provides a much needed overview of the history of science from 1900 to the present day It is the first book to survey modern developments in science during a century of unprecedented change conflict and uncertainty The scope is global and it covers a wide range of disciplines including life sciences information sciences as well as aspects of mathematics engineering and technology and medicine Back cover

*Holographic Visions* Sean F. Johnston, 2006-04-06 Holography exploded on the scientific world in 1964 but its slow fuse had been burning much longer Over the next four decades the echoes of that explosion reached scientists engineers artists and popular culture Emerging from classified military research holography evolved to represent the power of post war physics an aesthetic union of art and science the

countercultural meanderings of holism a cottage industry for waves of would be entrepreneurs and a fertile plot device for science fiction New working cultures sprang up to mutate holography redefining its products reshaping its audiences and reconceiving its applications The outcomes included ever more sublime holograms and exquisitely sensitive measuring techniques but also priority disputes prurience and poisonous business rivalries New subjects cross intellectual borders and so do their explanations This book draws on the history and philosophy of science and technology social studies politics and cultural history to trace the trajectory of holography The result is an in depth account of how new science emerges Based on unprecedented interviews with pioneer holographers and extensive archival research it reveals how science technology art and wider culture are entwined in the modern world

**More Than Nothing** Aaron Sidney Wright,2024 Across decades and disciplines More than Nothing offers a scoping history of the vacuum as a lens into the development of modern physics

*A Short History of Physics in the American Century* David C. Cassidy,2013-09-02 As the twentieth century ended computers the Internet and nanotechnology were central to modern American life Yet the physical advances underlying these applications are poorly understood and underappreciated by U S citizens In this overview Cassidy views physics through America s engagement with the political events of a tumultuous century

**The Idea Factory** Jon Gertner,2013-02-26 The definitive history of America s greatest incubator of innovation and the birthplace of some of the 20th century s most influential technologies Filled with colorful characters and inspiring lessons The Idea Factory explores one of the most critical issues of our time What causes innovation Walter Isaacson The New York Times Book Review Compelling Gertner s book offers fascinating evidence for those seeking to understand how a society should best invest its research resources The Wall Street Journal From its beginnings in the 1920s until its demise in the 1980s Bell Labs officially the research and development wing of AT T was the biggest and arguably the best laboratory for new ideas in the world From the transistor to the laser from digital communications to cellular telephony it s hard to find an aspect of modern life that hasn t been touched by Bell Labs In The Idea Factory Jon Gertner traces the origins of some of the twentieth century s most important inventions and delivers a riveting and heretofore untold chapter of American history At its heart this is a story about the life and work of a small group of brilliant and eccentric men Mervin Kelly Bill Shockley Claude Shannon John Pierce and Bill Baker who spent their careers at Bell Labs Today when the drive to invent has become a mantra Bell Labs offers us a way to enrich our understanding of the challenges and solutions to technological innovation Here after all was where the foundational ideas on the management of innovation were born

**Photonic Technology and Industrial Policy** Ernest Sternberg,1992-11-03 A revolutionary technological development of the late twentieth century photonics embraces lasers fiber optics imaging devices and optical applications to computing It affects the fortunes of numerous industries and other than conventional microelectronics may now be the leading arena for worldwide technological rivalry While Japan has seen its photonic industries grow faster than any other high technology sector the United States where much of photonics originated has



experienced a declining industrial capability in world markets Why is the U S floundering in this critical new technology Are market solutions adequate as a national response to such massive technological change After describing the history and economic implications of photonics this book places these questions in the context of industrial policy debates about the proper role of government in response to strategic industrial sectors The author then assesses the U S public policy response by examining various government programs directed at photonics These programs add up to an implicit government photonics policy but one that is shortsighted incoherent and unplanned Sternberg concludes that it is this failure to plan that explains United States retrogression in a critical technology

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tick the best answer lots of things jumbled together which cannot be separated just one thing by itself lots of things jumbled together which can be separated one thing which can be split up into smaller bits 1 mark 2 katie has a cold her dad makes her a hot lemon drink using some yellow powder he mixes the powder with some hot water

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