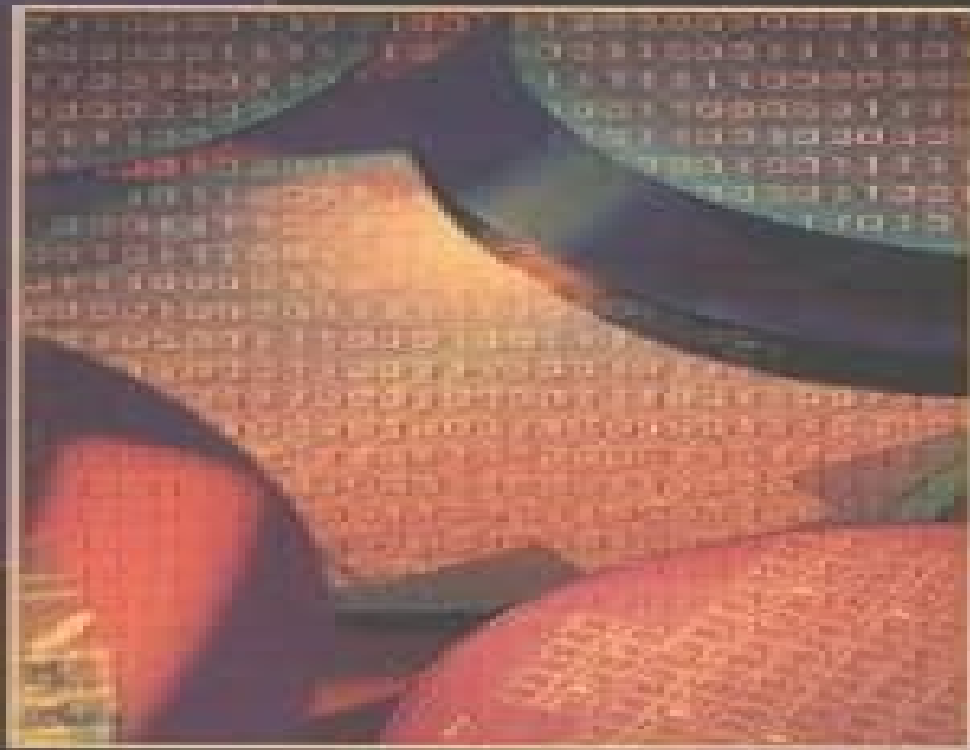


Electronic Genie


THE
TANGLED
HISTORY
OF SILICON



Frederick Seitz
& Norman G. Einspruch

Electronic Genie The Tangled History Of Silicon

Howard R. Huff, H. Tsuya, U. Gösele



Electronic Genie The Tangled History Of Silicon:

Electronic Genie Frederick Seitz, Norman G. Einspruch, 1998 *Electronic Genie* takes its readers on a two century journey that begins with Antoine Lavoisier's prediction of the existence of silicon as an element. It traces the emergence of silicon as key to the development of most forms of today's electronics and its role in making possible the revolutionary digital computer. Loaded with information about such original thinkers as Lavoisier, John Bardeen, Bill Gates, Patrick Haggerty, Gordon Moore and many more, the volume traces the use of silicon in metallurgy as a diode rectifier in wireless and radio and ultimately as a nonlinear element for heterodyne mixing in radar during World War II. *Electronic Genie* will appeal to students of science and technology as well as to anyone interested in the history of these fields. **Semiconductor Silicon** 2002 Howard R. Huff, László Fábry, Seigo Kishino, 2002 *Silicon Materials Science and Technology*, 1998 **Silicon, From Sand to Chips, Volume 1** Alain Vignes, 2024-06-04 Silicon is the material of the digital revolution of solar energy and of digital photography which has revolutionized both astronomy and medical imaging. It is also the material of microelectromechanical systems (MEMS), indispensable components of smart objects. The discovery of the electronic and optoelectronic properties of germanium and silicon during the Second World War followed by the invention of the transistor ushered in the digital age. Although the first transistors were made from germanium, silicon eventually became the preferred material for these technologies. *Silicon From Sand to Chips 1* traces the history of the discoveries, inventions and developments in basic components and chips that these two materials enabled one after the other. The book is divided into two volumes and this first volume is devoted to basic microelectronic components. **More Things in Heaven and Earth** Benjamin Bederson, 2012-12-06 The 20th century has been the century of physics, a period of unparalleled scientific advances fueled primarily by discoveries by physicists. The 20th century also represents the life span of the American Physical Society, not coincidentally and to celebrate both its own centennial and this remarkable century the APS has prepared a book highlighting the seminal discoveries of the 20th century with invited articles by the world's most eminent living physicists including 12 physics Nobel Prize winners. Included will be chapters by R. Richardson on superfluidity, J. Lebowitz on statistical mechanics, P. deGennes on granular material, J. Hopfield on neural networks, C. Wieman on matter waves, A. Pais on high energy physics in the early 20th century. The book will contain about 40 chapters on a broad range of topics in physics written in an engaging and personal style. While the technical level is high, these are not review articles but rather perspectives on discoveries written by those scientists most closely associated with the original work as well as future directions of research. The book will be promoted to the meeting attendees in advance of the March meeting and should be of interest to the broad scientific community. Ben Bederson, professor of physics at NYU, was editor in chief of the APS journals from 1986-1997. He is also editor of the *Advances in Atomic Physics* Series, Academic Press. **Understanding Moore's Law** David C. Brock, 2006 *Silicon Materials Science and Technology* Howard R. Huff, H. Tsuya, U. Gösele, 1998 **The Silicon Web** Michael G.

Raymer,2009-06-23 The technology behind computers fiber optics and networks did not originate in the minds of engineers attempting to build an Internet The Internet is a culmination of intellectual work by thousands of minds spanning hundreds of years We have built concept upon concept and technology upon technology to arrive at where we are today in a world co

To the Digital Age Ross Knox Bassett,2007-02-22 The metal oxide semiconductor MOS transistor is the fundamental element of digital electronics The tens of millions of transistors in a typical home in personal computers automobiles appliances and toys are almost all derive from MOS transistors To the Digital Age examines for the first time the history of this remarkable device which overthrew the previously dominant bipolar transistor and made digital electronics ubiquitous Combining technological with corporate history To the Digital Age examines the breakthroughs of individual innovators as well as the research and development power and problems of large companies such as IBM Intel and Fairchild Bassett discusses how the MOS transistor was invented but spurned at Bell Labs and then how in the early 1960s spurred on by the possibilities of integrated circuits RCA Fairchild and IBM all launched substantial MOS R D programs The development of the MOS transistor involved an industry wide effort and Bassett emphasizes how communication among researchers from different firms played a critical role in advancing the new technology Bassett sheds substantial new light on the development of the integrated circuit Moore s Law the success of Silicon Valley start ups as compared to vertically integrated East Coast firms the development of the microprocessor and IBM s multi billion dollar losses in the early 1990s To the Digital Age offers a captivating account of the intricate R D process behind a technological device that transformed modern society The

Many Voices of Modern Physics Joseph E. Harmon,Alan G. Gross,2023-03-07 The Many Voices of Modern Physics follows a revolution that began in 1905 when Albert Einstein published papers on special relativity and quantum theory Unlike Newtonian physics this new physics often departs wildly from common sense a radical divorce that presents a unique communicative challenge to physicists when writing for other physicists or for the general public and to journalists and popular science writers as well In their two long careers Joseph Harmon and the late Alan Gross have explored how scientists communicate with each other and with the general public Here they focus not on the history of modern physics but on its communication In their survey of physics communications and related persuasive practices they move from peak to peak of scientific achievement recalling how physicists use the communicative tools available in particular thought experiments analogies visuals and equations to convince others that what they say is not only true but significant that it must be incorporated into the body of scientific and general knowledge Each chapter includes a chorus of voices from the many celebrated physicists who devoted considerable time and ingenuity to communicating their discoveries to the science journalists who made those discoveries accessible to the public and even to philosophers sociologists historians an opera composer and a patent lawyer With their final collaboration Harmon and Gross offer a tribute to the communicative practices of the physicists who convinced their peers and the general public that the universe is a far more bizarre and interesting

place than their nineteenth century predecessors imagined 75th Anniversary of the Transistor Arokia Nathan, Samar K. Saha, Ravi M. Todi, 2023-08-01 75th Anniversary of the Transistor 75th anniversary commemorative volume reflecting the transistor's development since inception to current state of the art 75th Anniversary of the Transistor is a commemorative anniversary volume to celebrate the invention of the transistor The anniversary volume was conceived by the IEEE Electron Devices Society EDS to provide comprehensive yet compact coverage of the historical perspectives underlying the invention of the transistor and its subsequent evolution into a multitude of integration and manufacturing technologies and applications The book reflects the transistor's development since inception to the current state of the art that continues to enable scaling to very large scale integrated circuits of higher functionality and speed The stages in this evolution covered are in chronological order to reflect historical developments Narratives and experiences are provided by a select number of venerated industry and academic leaders and retired veterans of the semiconductor industry 75th Anniversary of the Transistor highlights Historical perspectives of the state of the art pre solid state transistor world pre 1947 leading to the invention of the transistor Invention of the bipolar junction transistor BJT and analytical formulations by Shockley 1948 and their impact on the semiconductor industry Large scale integration Moore's Law 1965 and transistor scaling 1974 and MOS LSI including flash memories SRAMs DRAMs 1963 and the Toshiba NAND flash memory 1989 Image sensors 1986 including charge coupled devices and related microsensor applications With comprehensive yet succinct and accessible coverage of one of the cornerstones of modern technology 75th Anniversary of the Transistor is an essential reference for engineers researchers and undergraduate students looking for historical perspective from leaders in the field **Digital Rubbish** Jennifer Gabrys, 2013-04-26 This is a study of the material life of information and its devices of electronic waste in its physical and electronic incarnations a cultural and material mapping of the spaces where electronics in the form of both hardware and information accumulate break down or are stowed away Where other studies have addressed digital technology through a focus on its immateriality or virtual qualities Gabrys traces the material spatial cultural and political infrastructures that enable the emergence and dissolution of these technologies In the course of her book she explores five interrelated spaces where electronics fall apart from Silicon Valley to Nasdaq from containers bound for China to museums and archives that preserve obsolete electronics as cultural artifacts to the landfill as material repository Digital Rubbish A Natural History of Electronics describes the materiality of electronics from a unique perspective examining the multiple forms of waste that electronics create as evidence of the resources labor and imaginaries that are bundled into these machines Ranging across studies of media and technology as well as environments geography and design Jennifer Gabrys draws together the far reaching material and cultural processes that enable the making and breaking of these technologies *Ulsi Front-end Technology: Covering From The First Semiconductor Paper To Cmos Finfet Technology* Wai Shing Lau, 2017-08-23 The main focus of this book is ULSI front end technology It covers from the early history of semiconductor science technology from

1874 to state of the art FINFET technology in 2016 Some ULSI back end technology is also covered for example the science and technology of MIM capacitors for analog CMOS has been included in this book

Dutch Messengers: A History of Science Publishing, 1930-1980 Cornelis Andriessse, 2008-11-30 In this pioneering work based upon interviews with many of the surviving protagonists Cornelis Cees Andriessse tells the story of the role that Dutch publishing houses played in the rise of English language commercial science publishing after the Second World War that was preceded by the decline of science publishing in German Using the existing literature as well as many privately held archival sources the author follows the fortunes of the leading publishers Martinus Nijhoff Elsevier and North Holland while also briefly discussing smaller houses like Dr W Junk and Reidel The book contains lively portraits of the main characters involved and will no doubt stimulate further research and discussion of the role of publishing in the history of science The authors main thesis that successful publishing requires a strong fruitful partnership between an academic publisher and an academic editor will no doubt convince most readers This is a great book on the most productive friendships and partnerships in the history of science publishing

Proceedings, American Philosophical Society (vol. 142, no. 4, 1998) , Silicon, From Sand to Chips, Volume 2 Alain Vignes, 2024-06-04 Silicon is the material of the digital revolution of solar energy and of digital photography which has revolutionized both astronomy and medical imaging It is also the material of microelectromechanical systems MEMS indispensable components of smart objects The discovery of the electronic and optoelectronic properties of germanium and silicon during the Second World War followed by the invention of the transistor ushered in the digital age Although the first transistors were made from germanium silicon eventually became the preferred material for these technologies Silicon From Sand to Chips 2 traces the history of the discoveries inventions and developments in basic components and chips that these two materials enabled one after the other The book is divided into two volumes and this second volume is devoted to microelectronic and optoelectronic chips solar cells and MEMS

80 Years of Research at the Philips Natuurkundig Laboratorium (1914-1994) Jan Korsten, Marc Vries, 2025-10-01 Histories of major industrial research laboratories are an essential contribution to the history of technology This book offers a description of the way one of such laboratories has changed its ambitions and activities in the course of time In the 80 year period that is described here the Philips Natuurkundig Laboratorium has played different roles for the Philips company today one of the world's largest electronics company which was founded in 1891 in the Netherlands The history of this laboratory is described in three main periods each characterized by its goals available means organizational structures research culture and external relations For each period the general story line is alternated by case study descriptions The Philips Natuurkundig Laboratorium was founded in 1914 The term Natuurkundig in English of physics indicated that the task of the new laboratory was to conduct research of physics Initially this research was related to light bulbs At that time the Philips company led by the two Philips brothers Anton and Gerard was primarily a light bulb producing company Soon the Nat Lab this is the commonly used

abbreviation of the full name became the main source of inventions that would support the company in extending its product portfolio In the course of time the goal of the lab s activities shifted in response to changes in its context both within the Philips company and in a broader national and international context Today the Philips Natuurkundig laboratorium is part of a worldwide research organization Philips Research that generates options for new and improved products and processes and produces important patents in those electronics markets in which the company is active It is still one of the world s major private research organizations A key characteristic is the wide range of disciplines that are represented from electrical engineering and physics to chemistry mathematics mechanics information technology and software

Science in the Early Twentieth Century Jacob Darwin Hamblin,2005-03-08 The first A Z resource on the history of science from 1900 to 1950 examining the dynamic between science and the social political and cultural forces of the era Though many books have highlighted the great scientific discoveries of the early 1900s few have tackled the wider context in which these milestones were achieved Science in the Early Twentieth Century covers everything from quantum physics to penicillin and more including all the major scientific developments of the period detailing not only the scientists and their work but also the social and political forces that dominated the scientific agenda Over 200 A Z entries chronicle the landmark scientific discoveries and personalities of the period including such scientific giants as Albert Einstein and Marie Curie Placing science firmly within its cultural context this thoroughly researched accessible resource takes a uniquely interdisciplinary approach making it an invaluable text for scientists educators students and the general reader

Histories of the Electron Jed Z. Buchwald,Andrew Warwick,2004-01-30 A biography of the electron and a history of the microphysical world that it opened up

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Unveiling the Magic of Words: A Report on "**Electronic Genie The Tangled History Of Silicon**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Electronic Genie The Tangled History Of Silicon**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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