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Moore's Law Understanding Moore's Law The Intel Trinity Geek Silicon Valley Houdini's Rendezvous Making Silicon Valley The Long Arm of Moore's Law Inside the Tornado Building High-Tech Clusters WTF?: What's the Future and Why It's Up to Us The Internet Weather Makers of the Microchip Crossed Wires VC Chip War Making Silicon Valley The Silicon Valley Edge Living on the Fault Line To the Digital Age The Innovators What if It Does Work Out? The Turn of Moore's Law from Space to Time Entrepreneurship, Growth, and Public Policy Smithsonian America CIO The Oxford Handbook of the History of Physics Experimental Capitalism The Intel Trinity The Power Law Roger Moore's James Bond - The Retrospective The Geography of Genius Encyclopedia of Microcomputers The Valley of Heart's Delight Betting It All Leonardo to the Internet Encyclopedia of Cyber Warfare A New History of Modern Computing Upgrade Culture and Technological Change Andy Grove Broken Genius

Moore's Law

2015-05-05

our world today from the phone in your pocket to the car that you drive the allure of social media to the strategy of the pentagon has been shaped irrevocably by the technology of silicon transistors year after year for half a century these tiny switches have enabled ever more startling capabilities their incredible proliferation has altered the course of human history as dramatically as any political or social revolution at the heart of it all has been one quiet californian gordon moore at fairchild semiconductor his seminal silicon valley startup moore a young chemist turned electronics entrepreneur had the defining insight silicon transistors and microchips made of them could make electronics profoundly cheap and immensely powerful microchips could double in power then redouble again in clockwork fashion history has borne out this insight which we now call moore s law and moore himself having recognized it worked endlessly to realize his vision with moore s technological leadership at fairchild and then at his second start up the intel corporation the law has held for fifty years the result is profound from the days of enormous clunky computers of limited capability to our new era in which computers are placed everywhere from inside of our bodies to the surface of mars moore led nothing short of a revolution in moore s law arnold thackray david c brock and rachel jones give the authoritative account of gordon moore s life and his role in the development both of silicon valley and the transformative technologies developed there told by a team of writers with unparalleled access to moore his family and his contemporaries this is the human story of man and a career that have had almost superhuman effects the history of twentieth century technology is littered with overblown revolutions moore s law is essential reading for anyone seeking to learn what a real revolution looks like

Understanding Moore's Law

2006

based on unprecedented access to the corporation s archives the intel trinity is the first full history of intel corporation the essential company of the digital age told through the lives of the three most important figures in the company s history robert noyce gordon moore and andy grove often hailed the most important company in the world intel remains more than four decades after its inception a defining company of the global digital economy the legendary inventors of the microprocessor the single most important product in the modern world intel today builds the tiny engines that power almost every intelligent electronic device on the planet but the true story of intel is the human story of the trio of geniuses behind it michael s malone reveals how each brought different things to intel and at different times noyce the most respected high tech figure of his generation brought credibility and money to the company s founding moore made intel the world s technological leader and grove has relentlessly driven the company to ever higher levels of success and competitiveness without any one of these figures intel would never have achieved its historic success with them intel made possible the personal computer internet telecommunications and the personal electronics revolutions the intel trinity is not just the story of intel s legendary past it also offers an analysis of the formidable challenges that lie ahead as the company struggles to maintain its dominance its culture and its legacy with eight pages of black and white photos

The Intel Trinity

2014-07-15

silicon valley veterans and newbies alike will want to explore this book that delves into the rich history behind the region that birthed the world's most important industry technology journalist ashlee vance has captured almost every aspect of the area stretching between san francisco and san jose california starting with the eager radio and electronics enthusiasts of the early 1900s and ending with the computing powerhouses of today such as google and apple along the way the book profiles the people and places that have elevated silicon valley to an almost mythic pedestal this book delivers silicon valley taking us from success story to failed startup and back again as we drive the roads from san francisco to menlo park palo alto mountain view sunnyvale santa clara and san jose it's full of profiles of the larger than life characters that pioneered the processor computer and internet revolutions the book's vibrant design includes silicon valley soundbytes packed with insider information and trivia and click here sidebars which suggest places to eat drink and shop place by place readers get the inside scoop on all the addresses that count which include microsoft research centers the headquarters of google hewlett packard intel sun microsystems and oracle research powerhouses such as stanford university nasa ames and lawrence livermore national laboratory the computer history museum and the tech museum the shoreline amphitheater the churchill club and many more

Geek Silicon Valley

2007-11-01

sean st jean is a silicon valley ceo and founder of a multi billion dollar artificial intelligence company he's single good looking wealthy and on the a list of the valley's movers and shakers his company babbage labs just sent the world's most advanced ai satellite named houdini into orbit the satellite was destined for service at the pentagon but when it begins to think for itself and goes rogue the ramifications could disrupt the world's balance of power houdini's rendezvous is a thriller of murder industrial international espionage and artificial intelligence what happens in the valley's most innovative circles has a sprawling fallout throughout the world how will sean navigate the new world operating in supersonic artificial intelligence

Houdini's Rendezvous

2020-11-25

a history of the innovative practices in the san francisco area electronics industry that paved the way for the rise of the computer industry in silicon valley

Making Silicon Valley

2006

how beginning in the mid 1960s the us semiconductor industry helped shape changes in american science including a new orientation to the short term and the commercial since the mid 1960s american science has undergone significant changes in the way it is organized funded and practiced these changes include the decline of basic research by corporations a new orientation toward the short term and the commercial with pressure on universities and government labs to participate in the market and the promotion of interdisciplinarity in this book cyrus mody argues that the changes in american science that began in the 1960s co evolved with and were shaped by the needs of the civilianized us semiconductor industry in 1965 gordon moore declared that the most profitable number of circuit components that can be crammed on a single silicon chip doubles every year mody views moore s law less as prediction than as self fulfilling prophecy pointing to the enormous investments of capital people and institutions the semiconductor industry required the long arm of moore s law that helped shape all of science mody offers a series of case studies in microelectronics that illustrate the reach of moore s law he describes the pressures on stanford university s electrical engineers during the vietnam era ibm s exploration of alternatives to semiconductor technology the emergence of consortia to integrate research across disciplines and universities and the interwoven development of the the molecular electronics community and associated academic institutions as the vision of a molecular computer informed the restructuring of research programs

The Long Arm of Moore's Law

2016-12-02

emphasizing the importance of seizing and holding marketing leadership during the tornado phase of market development a strategy guide for high tech companies and entrepreneurs analyzes the technology adoption life cycle

Inside the Tornado

1999

richards 7

Building High-Tech Clusters

2004-04-05

the man who can really make a whole industry happen eric schmidt executive chairman of google a punchy and provocative book wtf is an insightful and heartfelt plea daring us to reimagine a better economy and society financial times renowned as the oracle of silicon valley tim o reilly has spent three decades exploring the world transforming power of information technology now the leading thinker of the internet age turns his eye to the future and asks the questions that will frame the next stage of the digital revolution will increased automation destroy jobs or create new opportunities what will the company of tomorrow look like is a world dominated by algorithms to be welcomed or feared how can we ensure that technology serves people rather than the other way around how can we all become better at mapping future trends tim o reilly s insights create an authoritative compelling and often surprising portrait of the world we will soon inhabit highlighting both the many pitfalls and the enormous opportunities that lie ahead tim o reilly has been at the cutting edge of the internet since it went commercial new york times o reilly s ability to quickly identify nascent trends is unparalleled wired

WTF?: What's the Future and Why It's Up to Us

2017-10-19

a provocative and compelling way to look at the future world of work what will work be like in the future futurists often try to answer this question by looking at how the internet and technology have changed our lives but in the internet weather james moore asserts it s far more useful and even essential to view the future by examining those things that don t change the human desire for time privacy trust and truth understanding this moore says can help managers change the way they manage and in doing so retain employees and improve their businesses in this riveting book moore shares insights gleaned from his consulting career and imparts advice he has given clients to help them change their behavior and improve business and personal performance he also questions assumptions about the new economy and offers predictions about the future of work to help managers see where to focus their energy and attention

The Internet Weather

2002-02-05

the first years of the company that developed the microchip and created the model for a successful silicon valley start up in the first three and a half years of its existence fairchild semiconductor developed produced and marketed the device that would become the fundamental building block of the digital world the microchip founded in 1957 by eight former employees of the schockley semiconductor laboratory fairchild created the model for a successful silicon valley start up intense activity with a common goal close collaboration and a quick path to the market fairchild s first device hit the market just ten months after the company s founding

fairchild semiconductor was one of the first companies financed by venture capital and its success inspired the establishment of venture capital firms in the san francisco bay area these firms would finance the explosive growth of silicon valley over the next several decades this history of the early years of fairchild semiconductor examines the technological business and social dynamics behind its innovative products the centerpiece of the book is a collection of documents reproduced in facsimile including the company s first prospectus ideas sketches and plans for the company s products and a notebook kept by cofounder jay last that records problems schedules and tasks discussed at weekly meetings a historical overview interpretive essays and an introduction to semiconductor technology in the period accompany these primary documents

Makers of the Microchip

2022-10-25

a sweeping revisionist historical analysis of telecommunications networks from the dawn of the republic to the 21st century telecommunications networks are vast intricate hugely costly systems for exchanging messages and information within cities and across continents from the post office and the telegraph to today s internet these networks have sown domestic division while also acting as sources of international power in crossed wires dan schiller who has conducted archival research on us telecommunications for more than forty years recovers the extraordinary social history of the major network systems of the united states drawing on arrays of archival documents and secondary sources schiller reveals that this history has been shaped by sharp social and political conflict and is embedded in the larger history of an expansionary us political economy schiller argues that networks have enabled us imperialism through a a recurrent american system of cross border communications three other key findings wind through the book first business users of networks more than carriers and certainly more than residential users have repeatedly determined how telecommunications systems have developed second despite their current importance for virtually every sphere of social life networks have been consecrated above all to aiding the circulation of commodities finally although the preferences of executives and officials have broadly determined outcomes these elites have repeatedly had to contend against the ideas and organizations of workers social movement activists and other reformers this authoritative and comprehensive revisionist history of us telecommunications argues that not technology but a dominative and contested political economy drove the evolution of this critical industry

Crossed Wires

2023-02-17

an incisive history of the venture capital industry new yorker an excellent and original economic history of venture capital tyler cowen marginal revolution a detailed fact filled account of america s most celebrated moneymen new republic extremely interesting readable and informative tom nicholas tells you most everything you ever wanted to know about the history of venture capital from the financing of the whaling industry to the present multibillion dollar venture funds arthur rock in principle venture capital is where the ordinarily conservative cynical domain of big money touches dreamy long shot enterprise in practice it has become the

distinguishing big business engine of our time a first rate history new yorker vc tells the riveting story of how the venture capital industry arose from america s longstanding identification with entrepreneurship and risk taking whether the venture is a whaling voyage setting sail from new bedford or the latest silicon valley startup vc is a state of mind as much as a way of doing business exemplified by an appetite for seeking extreme financial rewards a tolerance for failure and experimentation and a faith in the promise of innovation to generate new wealth tom nicholas s authoritative history takes us on a roller coaster of entrepreneurial successes and setbacks it describes how iconic firms like kleiner perkins and sequoia invested in genentech and apple even as it tells the larger story of vc s birth and evolution revealing along the way why venture capital is such a quintessentially american institution one that has proven difficult to recreate elsewhere

VC

2019-07-09

one of barack obama s favorite books of 2023 the financial times business book of the year this epic account of the decades long battle to control one of the world s most critical resources microchip technology with the united states and china increasingly in fierce competition is pulse quickening a nonfiction thriller the new york times you may be surprised to learn that microchips are the new oil the scarce resource on which the modern world depends today military economic and geopolitical power are built on a foundation of computer chips virtually everything from missiles to microwaves runs on chips including cars smartphones the stock market even the electric grid until recently america designed and built the fastest chips and maintained its lead as the 1 superpower but america s edge is in danger of slipping undermined by players in taiwan korea and europe taking over manufacturing now as chip war reveals china which spends more on chips than any other product is pouring billions into a chip building initiative to catch up to the us at stake is america s military superiority and economic prosperity economic historian chris miller explains how the semiconductor came to play a critical role in modern life and how the us became dominant in chip design and manufacturing and applied this technology to military systems america s victory in the cold war and its global military dominance stems from its ability to harness computing power more effectively than any other power until recently china had been catching up aligning its chip building ambitions with military modernization illuminating timely and fascinating chip war is an essential and engrossing landmark study london times

Chip War

2022-10-04

the peninsula s electronics component manufacturing complex was also shaped by large scale forces in industry government and the international arena key among these was military patronage and procurement during world war ii and the cold war because of their social and technological innovations firms on the peninsula unlike their east coast counterparts were able to capitalize on the growing military demand for very reliable and high performance electronic components in the 1940s and 1950s when the department of defense cut back its component expenditures and radically altered its procurement policies in the early 1960s local corporations quickly adapted their technologies and organizations to commercial markets as a result they penetrated a wide range of industrial sectors transforming the peninsula into the

technological center of american industry

Making Silicon Valley

1999

looks at silicon valley s business environment and what features have made it a fertile ground for start up companies who develop radical and disruptive technologies

The Silicon Valley Edge

2000

first came the groundbreaking crossing the chasm and the revolutionary product adoption life cycle principle then came inside the tornado which honed and furthered the radical ideas that have since become the canon of high tech markets now silicon valley guru moore reveals the key management practices that will ensure a competitive advantage in high technology in the years to come

Living on the Fault Line

2002

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

To the Digital Age

2003-04-29

following his blockbuster biography of steve jobs walter isaacson s new york times bestselling and critically acclaimed the innovators is a riveting propulsive and at times deeply moving the atlantic story of the people who created the computer and the internet what were the talents that allowed certain inventors and entrepreneurs to turn their visionary ideas into disruptive realities what led to their creative leaps why did some succeed and others fail the innovators is a masterly saga of collaborative genius destined to be the standard history of the digital revolution and an indispensable guide to how innovation really happens isaacson begins the adventure with ada lovelace lord byron s daughter who pioneered computer programming in the 1840s he explores the fascinating personalities that created our current digital revolution such as vannevar bush alan turing john von neumann j c r licklider doug engelbart robert noyce bill gates steve wozniak steve jobs tim berners lee and larry page this is the story of how their minds worked and what made them so inventive it s also a narrative of how their ability to collaborate and master the art of teamwork made them even more creative for an era that seeks to foster innovation creativity and teamwork the innovators is a sweeping and surprisingly tenderhearted history of the digital age the new york times

The Innovators

2014-10-07

transform your hobby or talent into a side hustle that will provide you with inspiration fulfillment and a fortune this book is the energetic motivational injection to help you overcome your fears and doubts

What if It Does Work Out?

2020-01-15

this book states that a space induced crisis is recognized as the cause of trouble that moore s law is currently facing the contemporary practice of this empirical law can be considered as happening within a space dominant paradigm an alternative of exploiting potential in the dimension of time is identified as an emerging paradigm in microelectronics the new practice is termed a time oriented paradigm it is justified as the turn of moore s law from space to time the resultant time moore strategy is envisioned as the next generation enabler for continuing moore s law s pursuit of everhigher information processing power and efficiency it also serves as the perpetuation of the spirit that moore s law is nothing but a collective storied history of innovations in the first part of this book by following thomas kuhn s seminal work around the concepts of paradigm and scientific revolution the argument for the time moore strategy time moore to use time more and the paradigm shift from space to time is carried out heavily through philosophical persuasion rather than technical proof due to the difficult challenge of change of mindset the second part of

the book provides solid technical materials for supporting this transition from the old paradigm to the new one in short the goal of this book is to reevaluate the contemporary practice of microelectronics identify the cause of the current crisis advocate a change of mindset to circumvent the crisis and ultimately point out a new route for advancing after achieving so many unprecedented accomplishments through several decades of relentless endeavor it s time for the big ship of moore s law i e the art of microelectronic system design to make a turn

The Turn of Moore's Law from Space to Time

2022-05-24

this volume provides a lens to analyze public policy decisions involving entrepreneurship

Entrepreneurship, Growth, and Public Policy

2009-02-02

a depiction of the history of north america and the united states told through maps old and new the history starts with the peoples who first settled the land tens of thousand years ago and continues to the present day includes a timeline of american history a guide to the fifty u s states and a map showing the birthplace of every u s president

Smithsonian America

2023-09-05

presents a history of physics examining the theories and experimental practices of the science

CIO

2005-05-01

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 Oxford Handbook of the History of Physics

2013-10

based on unprecedented access to the corporation's archives the intel trinity is the first full history of intel corporation the essential company of the digital age told through the lives of the three most important figures in the company's history robert noyce gordon moore and andy grove often hailed the most important company in the world intel remains more than four decades after its inception a defining company of the global digital economy the legendary inventors of the microprocessor the single most important product in the modern world intel today builds the tiny engines that power almost every intelligent electronic device on the planet but the true story of intel is the human story of the trio of geniuses behind it michael s malone reveals how each brought different things to intel and at different times noyce the most respected high tech figure of his generation brought credibility and money to the company's founding moore made intel the world's technological leader and grove has relentlessly driven the company to ever higher levels of success and competitiveness without any one of these figures intel would never have achieved its historic success with them intel made possible the personal computer internet telecommunications and the personal electronics revolutions the intel trinity is not just the story of intel's legendary past it also offers an analysis of the formidable challenges that lie ahead as the company struggles to maintain its dominance its culture and its legacy with eight pages of black and white photos

Experimental Capitalism

2015-12-29

a gripping fly on the wall story of the rise of this unique and important industry based on extensive interviews with some of the most successful venture capitalists daniel rasmussen wall street journal a must read for anyone seeking to understand modern day silicon valley and even our economy writ large bethany mclean the washington post a rare and unsettling look inside a subculture of unparalleled influence jane mayer a classic a book of exceptional reporting analysis and storytelling charles duhigg from the new york times bestselling author of more money than god comes the astonishingly frank and intimate story of silicon valley's dominant

venture capital firms and how their strategies and fates have shaped the path of innovation and the global economy innovations rarely come from experts elon musk was not an electric car person before he started tesla when it comes to improbable innovations a legendary tech vc told sebastian mallaby the future cannot be predicted it can only be discovered it is the nature of the venture capital game that most attempts at discovery fail but a very few succeed at such a scale that they more than make up for everything else that extreme ratio of success and failure is the power law that drives the vc business all of silicon valley the wider tech sector and by extension the world in the power law sebastian mallaby has parlayed unprecedented access to the most celebrated venture capitalists of all time the key figures at sequoia kleiner perkins accel benchmark and andreessen horowitz as well as chinese partnerships such as qiming and capital today into a riveting blend of storytelling and analysis that unfurls the history of tech incubation in the valley and ultimately worldwide we learn the unvarnished truth often for the first time about some of the most iconic triumphs and infamous disasters in valley history from the comedy of errors at the birth of apple to the avalanche of venture money that fostered hubris at wework and uber vcs relentless search for grand slams brews an obsession with the ideal of the lone entrepreneur genius and companies seen as potential unicorns are given intoxicating amounts of power with sometimes disastrous results on a more systemic level the need to make outsized bets on unproven talent reinforces bias with women and minorities still represented at woefully low levels this does not just have social justice implications as mallaby relates china's homegrown vc sector having learned at the valley's feet is exploding and now has more women vc luminaries than america has ever had still silicon valley vc remains the top incubator of business innovation anywhere it is not where ideas come from so much as where they go to become the products and companies that create the future by taking us so deeply into the vcs game the power law helps us think about our own future through their eyes

The Intel Trinity

2015-11-17

modern bond retrospectives lazily tend to almost completely dismiss roger moore's tenure as james bond he is frequently called the worst bond and his movies are dismissed as carry on style romps roger would even make light of this himself the truth is though that roger was a great bond sure he maybe made a couple of films too many and the comedic elements of his films sometimes got out of hand but the roger moore years constitute the most fun era of bond if you sit down and watch one of roger's bond films you are guaranteed to have a good time roger moore's bond is christmas day afternoon john barry ken adam lewis gilbert carly simon crazy stunts quips caroline munro in a helicopter underwater bases jaws jane seymour the lotus parachutes jet planes space battles crocodiles ski chases casinos tuxedos double entendres the roger moore era of bond wasn't terrible or embarrassing it was fantastic in the book that follows we shall take a deep dive into the roger moore era of bond and explore his tenure from start to finish we'll assess the strengths and weaknesses of both roger's bond and his films but most of all this book is a celebration of roger moore's james bond and the years he spent suavely karate chopping baddies in a selection of safari suits and cream flares roger's amazing contribution to the bond franchise is far too often derided and mocked these days this book will hopefully serve as an entertaining and robust defence of roger moore and his incarnation of james bond

The Power Law

2022-02-01

an acclaimed travel writer examines the connection between surroundings and innovative ideas profiling examples in such regions as early twentieth century vienna renaissance florence ancient athens and silicon valley publisher

Roger Moore's James Bond - The Retrospective

2022-11-19

the encyclopedia of microcomputers serves as the ideal companion reference to the popular encyclopedia of computer science and technology now in its 10th year of publication this timely reference work details the broad spectrum of microcomputer technology including microcomputer history explains and illustrates the use of microcomputers throughout academe business government and society in general and assesses the future impact of this rapidly changing technology

The Geography of Genius

2016-11

the history of the heart of the high tech world mike malone is a journalist who has covered silicon valley for nearly twenty years this book combines the best of his work from a variety of renowned publications to offer a true to life glimpse of the world s most important industrial community these stories form a picture of a place at the center of cultural economic and technological advancement and the people who live there from dot com millionaires to everyday working people just trying to get by not confined to its present technological significance the book looks at the rich history of the valley and the future that awaits it meticulously researched and broad in scope the valley of heart s delight is the definitive biography of a place of massive cultural and political significance michael s malone palo alta ca joined the san jose mercury news in 1980 as the nation s first daily high tech reporter his writings on silicon valley earned him two pulitzer prize nominations he has also written for the new york times the boston globe the dallas morning news the wall street journal and the los angeles times he is currently the editor at large for asap

Encyclopedia of Microcomputers

1992-01-06

this offers an insight into the minds of sixteen famous contemporary high tech entrepreneurs through a series of intimate frank interviews a look at their childhood

their dreams their inspirations and their unwavering ambition to achieve their goals no matter the risks involved

The Valley of Heart's Delight

2002-07-10

now updated a comprehensive 500 year history of technology in society historian thomas j misa s sweeping history of the relationship between technology and society over the past 500 years reveals how technological innovations have shaped and have been shaped by the cultures in which they arose spanning the preindustrial past the age of scientific political and industrial revolutions as well as the more recent eras of imperialism modernism and global security this compelling work evaluates what misa calls the question of technology in this edition misa brings his acclaimed text up to date by drawing on current scholarship while retaining sharply drawn portraits of individual people artifacts and systems each chapter has been honed to relate to contemporary concerns globalization misa argues looks differently considering today s virulent nationalism cultural chauvinism and trade wars a new chapter focuses on the digital age from 1990 to 2016 the book also examines how today s unsustainable energy systems insecure information networks and vulnerable global shipping have helped foster geopolitical risks and instability and takes a look at the coronavirus pandemic from the perspective of wuhan china s high tech district a masterful analysis of how technology and culture have influenced each other over five centuries leonardo to the internet frames a history that illuminates modern day problems and prospects faced by our technology dependent world

Betting It All

2002

this definitive reference resource on cyber warfare covers all aspects of this headline topic providing historical context of cyber warfare and an examination its rapid development into a potent technological weapon of the 21st century today cyber warfare affects everyone from governments that need to protect sensitive political and military information to businesses small and large that stand to collectively lose trillions of dollars each year to cyber crime to individuals whose privacy assets and identities are subject to intrusion and theft the problem is monumental and growing exponentially encyclopedia of cyber warfare provides a complete overview of cyber warfare which has been used with increasing frequency in recent years by such countries as china iran israel north korea russia and the united states readers will gain an understanding of the origins and development of cyber warfare and of how it has become a major strategic element in warfare for countries throughout the world the encyclopedia s entries cover all of the most significant cyber attacks to date including the stuxnet worm that successfully disabled centrifuges in iran s natanz uranium enrichment facility the attack on israel s internet infrastructure during its january 2009 military offensive in the gaza strip the worldwide red october cyber attack that stole information from embassies research firms military installations and nuclear and other energy infrastructures and cyber attacks on private corporations like sony

Leonardo to the Internet

2022-02-22

how the computer became universal over the past fifty years the computer has been transformed from a hulking scientific supertool and data processing workhorse remote from the experiences of ordinary people to a diverse family of devices that billions rely on to play games shop stream music and movies communicate and count their steps in a new history of modern computing thomas haigh and paul ceruzzi trace these changes a comprehensive reimagining of ceruzzi s a history of modern computing this new volume uses each chapter to recount one such transformation describing how a particular community of users and producers remade the computer into something new haigh and ceruzzi ground their accounts of these computing revolutions in the longer and deeper history of computing technology they begin with the story of the 1945 eniac computer which introduced the vocabulary of programs and programming and proceed through email pocket calculators personal computers the world wide videogames smart phones and our current world of computers everywhere in phones cars appliances watches and more finally they consider the tesla model s as an object that simultaneously embodies many strands of computing

Encyclopedia of Cyber Warfare

2017-07-07

this book explores the origin and future of upgrade culture a collection of cultural habits and orientations based on the assumption that new technologies will rapidly perpetually and inevitably emerge by analyzing discourses of technological change and the practices of marketing workers inside the consumer technology industry between the early 1980s and the late 2010s the book describes the genesis maintenance and future of upgrade culture based on archival and popular sources first hand interviews with a range of industry professionals and participant observations at industry only events the book attends to issues both intimate to the culture of marketing work and structural to the organization of the consumer technology industry this book will have a broad appeal to social cultural theorists of technology marketing and consumerism as well as to scholars in business history communication cultural studies media studies sociology and anthropology the introduction of this book is freely available as a downloadable open access pdf under a creative commons attribution non commercial no derivatives 4 0 license taylorfrancis com chapters oa mono 10 4324 9781003193869 1 introduction adam richard rottinghaus context ubx refid 1bb75408 b5c2 4a69 bd20 082a73a77920

A New History of Modern Computing

2021-09-14

brilliant brave and willing to defy conventional wisdom andy grove the ceo of intel during its years of explosive growth is on the shortlist of america s most admired businesspeople grove gave tedlow unprecedented access to his private papers along with wide ranging interviews and access to friends and key business associates

the result is not just a life story but a fascinating analysis of how grove attacks problems born a hungarian jew in 1936 andras istvan grof survived the nazis only to face the soviet invasion of his country he fled to america at age twenty studied engineering and arrived in silicon valley just in time to become the third employee of intel as talented as he was as an engineer grove became an even better manager tedlow shows us exactly how the penniless immigrant taught himself to lead a major corporation through some of the toughest challenges in the history of business from publisher description

Upgrade Culture and Technological Change

2021-12-30

when william shockley invented the transistor the world was changed forever and he was awarded the nobel prize but today shockley is often remembered only for his incendiary campaigning about race intelligence and genetics his dubious research led him to donate to the nobel prize sperm bank and preach his inflammatory ideas widely making shocking pronouncements on the uselessness of remedial education and the sterilization of individuals with iqs below 100 ultimately his crusade destroyed his reputation and saw him vilified on national television yet he died proclaiming his work on race as his greatest accomplishment now pulitzer prize winning journalist joel n shurkin offers the first biography of this contradictory and controversial man with unique access to the private shockley archives shurkin gives an unflinching account of how such promise ended in such ignominy

Andy Grove

2007

Broken Genius

2006-06-13

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