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Four more deaths have been recorded. Deputy chief medical officer Dr Ronan Glynn said it was in the national character to go to work and see if symptoms go

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Four Decades: “It is a habit.
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The rise of semiconductor electronics, and the underlying manufacturing technology for them, is among the most important

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developments in world history of the past half-century. Integrated circuits-silicon chips-have transformed communication, transportation, commerce, military force, and culture. Clearly, insights into the dynamics that have brought us this silicon revolution

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are vital to our understanding of the world today and our common future. This new book places the silicon revolution in a broad context and charts Gordon Moore's development of his eponymous law across its 40-year life. Over the past four decades, Moore's law has

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Served as a remarkable guide to the dynamics of the silicon revolution. With the proliferation of silicon chips into nearly every aspect of contemporary life, Moore's law is increasingly looked to as a bellwether for the whole of technological development.

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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,

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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

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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

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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

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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

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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

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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-

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Century technology is littered with overblown "revolutions." Moore's Law is essential reading for anyone seeking to learn what a real revolution looks like.

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Four-Decoder algorithms;
asynchronous algorithms; libraries
of subroutines; benchmark suites;
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consistency and cache coherency;
machine classes such as clusters,
shared-memory multiprocessors,
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dataflow machines; specific machines such as Cray supercomputers, IBM 's cell processor and Intel 's multicore machines; race detection and auto parallelization; parallel programming languages, synchronization primitives,

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Based on unprecedented access to the corporation ' s archives, The Intel Trinity is the first full history of Intel Corporation—the essential

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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

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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

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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,

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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,

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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

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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 first years of the company

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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

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block of the digital world: the microchip. Founded in 1957 by eight former employees of the Shockley Semiconductor Laboratory, Fairchild created the model for a successful Silicon Valley start-up: intense activity with a common goal, close

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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

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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

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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

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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.

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A pair of technology experts describe how humans will have to keep pace with machines in order to become prosperous in the future and identify strategies and policies for business and individuals to use to combine digital processing

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power with human ingenuity.

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“ Startling in scope and bravado. ”

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breathtakingly better world. ” —Los

Angeles Times “ Elaborate, smart

and persuasive. ” —The Boston

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advocates of the role of technology
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argued that computers would soon
rival the full range of human
intelligence at its best. Now he
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inexorable evolutionary process:
the union of human and machine, in
which the knowledge and skills
embedded in our brains will be
combined with the vastly greater
capacity, speed, and knowledge-
sharing ability of our creations.

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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

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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;

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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,

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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

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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

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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

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the molecular electronics
community and associated
academic institutions as the vision
of a molecular computer informed
the restructuring of research
programs.

The end of dramatic exponential

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Growth in single-processor performance marks the end of the dominance of the single microprocessor in computing. The era of sequential computing must give way to a new era in which parallelism is at the forefront.

Although important scientific and

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engineering challenges lie ahead, this is an opportune time for innovation in programming systems and computing architectures. We have already begun to see diversity in computer designs to optimize for such considerations as power and

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throughput. The next generation of discoveries is likely to require advances at both the hardware and software levels of computing systems. There is no guarantee that we can make parallel computing as common and easy to use as yesterday's sequential

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single-processor computer
systems, but unless we
aggressively pursue efforts
suggested by the
recommendations in this book, it
will be "game over" for growth in
computing performance. If parallel
programming and related software

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Efforts fail to become widespread, the development of exciting new applications that drive the computer industry will stall; if such innovation stalls, many other parts of the economy will follow suit. The Future of Computing Performance describes the factors

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that have led to the future limitations on growth for single processors that are based on complementary metal oxide semiconductor (CMOS) technology. It explores challenges inherent in parallel computing and architecture, including ever-

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increasing power consumption and the escalated requirements for heat dissipation. The book delineates a research, practice, and education agenda to help overcome these challenges. The Future of Computing Performance will guide researchers,

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manufacturers, and information technology professionals in the right direction for sustainable growth in computer performance, so that we may all enjoy the next level of benefits to society.

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