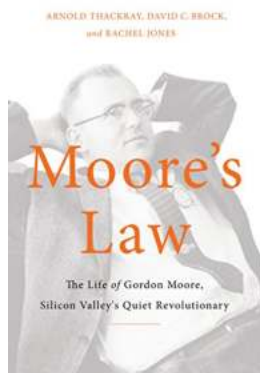


# The Life Of Gordon Moore: Silicon Valley's Quiet Revolutionary

Gordon Moore is a name deeply rooted in the history of Silicon Valley. While some might not be familiar with his name, his impact on the technological world is undeniable. Known for his contributions to the development of the microchip and his observation that the number of transistors on a chip doubles approximately every two years, Gordon Moore has become a legendary figure in the world of technology.

Moore was born on January 3, 1929, in San Francisco, California. Growing up in a post-Great Depression era, he witnessed the hardships faced by many Americans. However, his thirst for knowledge and curiosity steered him towards science and technology, which would eventually shape his career and impact generations to come.

Moore's passion for science led him to pursue a Bachelor's degree in Chemistry from the University of California, Berkeley. Following this, he earned a Ph.D. in Chemistry and Physics from the California Institute of Technology. It was during his time at Caltech that Moore developed a keen interest in electronics.



## Moore's Law: The Life of Gordon Moore, Silicon Valley's Quiet Revolutionary

by Arnold Thackray (Kindle Edition)

★★★★☆ 4.6 out of 5

Language : English

File size : 31804 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting : Enabled

Word Wise : Enabled

Print length : 562 pages



After completing his doctorate, Moore briefly worked at the Applied Physics Laboratory at Johns Hopkins University. However, his desire to innovate in the emerging field of semiconductors led him to return to California, where the heart of technological advancements was flourishing.

In 1957, Moore co-founded Fairchild Semiconductor, along with Robert Noyce, Jean Hoerni, Julius Blank, Eugene Kleiner, and Sheldon Roberts. This move would set the stage for Moore's remarkable contributions to the world of technology. Fairchild Semiconductor played a crucial role in establishing Silicon Valley as a hub for innovation.

During his time at Fairchild Semiconductor, Moore made a remarkable observation that would later become known as "Moore's Law." In a 1965 paper, he projected that the number of transistors on a microchip would double approximately every two years, while the cost would be halved. This observation, which held true for several decades, became the driving force behind the rapid advancements in computer technology.

Moore's Law was not just a prediction; it became a self-fulfilling prophecy. It motivated engineers and scientists to constantly seek ways to push the boundaries of technological limitations. The semiconductor industry adopted this principle as a guide, which led to the development of smaller, faster, and more powerful microchips.

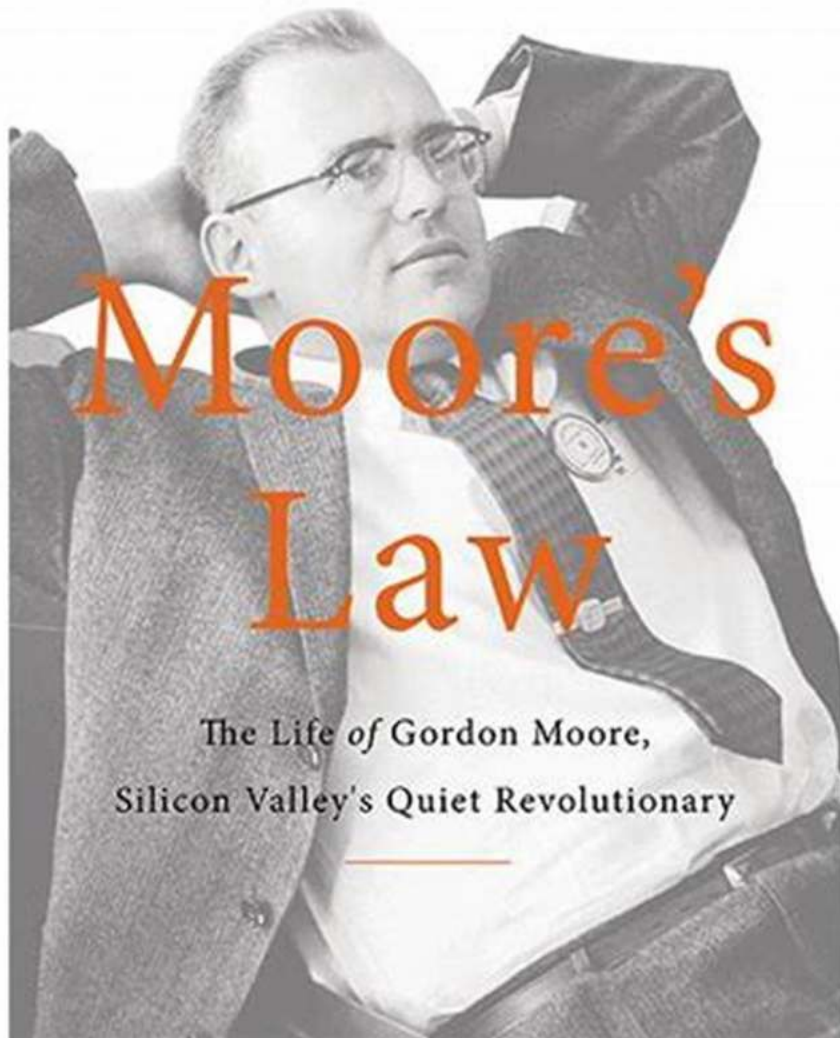
Gordon Moore's contributions extend beyond just Moore's Law. In 1968, he co-founded Intel Corporation, alongside Robert Noyce. Intel would go on to become one of the most influential and successful companies in the technology industry. Under Moore's leadership, Intel introduced the world's first microprocessor in 1971, revolutionizing the way computers and other electronic devices were designed and operated.

Although Moore stepped down as CEO of Intel in 1987, his impact on the company and the industry as a whole continued to shape its trajectory. The advancements in microprocessor technology under his leadership laid the foundation for the modern computing we enjoy today.

Gordon Moore's legacy transcends his work in the semiconductor industry. Alongside his innovative contributions, he has also been a strong advocate for environmental sustainability. In 2000, he and his wife, Betty Moore, established the Gordon and Betty Moore Foundation. The foundation focuses on initiatives in science, environmental conservation, patient care improvements, and the San Francisco Bay Area.

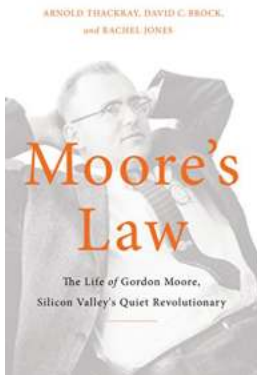
While Gordon Moore may not be a household name like some other tech pioneers, his contributions to the world have left an indelible mark. His quiet revolution, driven by curiosity and a desire to push the limits of technology, has shaped the digital age we live in today.

ARNOLD THACKRAY, DAVID C. BROCK,  
and RACHEL JONES



In , the life of Gordon Moore exemplifies the power of passion, innovation, and vision. His observation, known as Moore's Law, has become a guiding principle in the semiconductor industry, leading to unprecedented advancements in technology. His co-founding of Intel Corporation and the development of the microprocessor paved the way for the digital revolution we now witness. Moreover, his commitment to environmental sustainability through the Gordon and Betty Moore Foundation showcases his dedication to bringing positive

change to the world. As we reflect on the transformative impact of Silicon Valley, let us not forget the quiet revolutionary, Gordon Moore, whose contributions continue inspiring generations of innovators.



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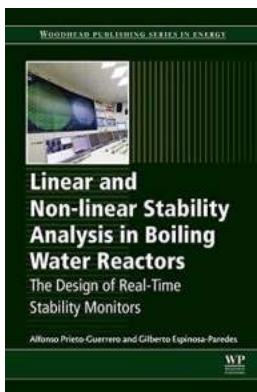


Our world today -- from the phone in your pocket to the car that you drive, the allure of social media to the strategy of the Pentagon -- has been shaped irrevocably by the technology of silicon transistors. Year after year, for half a century, these tiny switches have enabled ever-more startling capabilities. 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

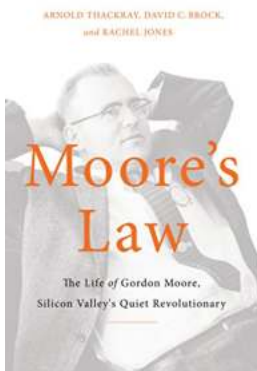
"Moore's Law", and Moore himself, having recognized it, worked endlessly to realize his vision. With Moore's technological leadership at Fairchild and then at his second start-up, the Intel Corporation, the law has held for fifty years. The result is profound: from the days of enormous, clunky computers 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.



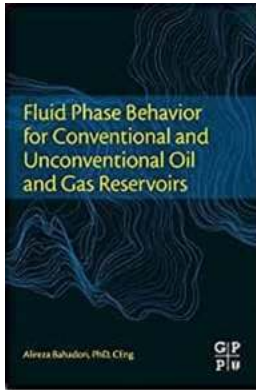
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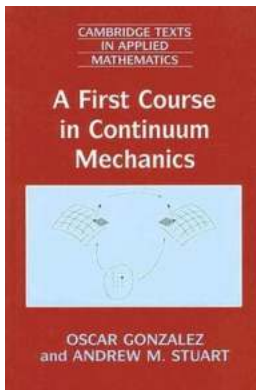
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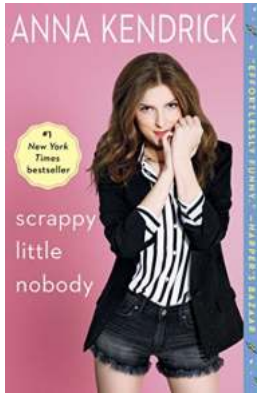
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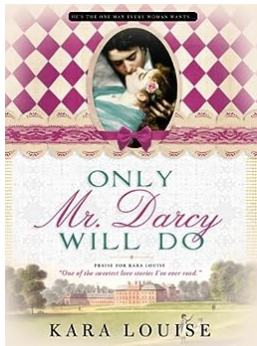
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