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The Feynman Processor: Quantum Entanglement And The Computing Revolution by. Gerard J. Milburn. 3.49 · Rating details · 57 ratings · 3 reviews Quantum computing, the reduction of computing elements to sizes far smaller than that of present-day chips, down to the size of individual atoms, presents new problems, problems on the quantum level.

The Feynman Processor: Quantum Entanglement And The ... It is Feynman's Rule that gives the quantum computer its nickname, the Feynman Processor, and that will endow computers with an enormous range of powerful new capabilities." "He shows why conventional computers can't go on getting faster and smaller forever and how the unpredictability of matter at this level has enabled scientists to rethink the way that we could design, build, and use the new "quantum computers."

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The Feynman processor : quantum entanglement and the computing revolution by Milburn, G. J. (Gerard J.) Publication date 1998 Topics Feynman, Richard P. (Richard Phillips), 1918-1988, Quantum computers, Quantum entanglement Publisher Reading, Mass. : Perseus Books Collection

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But thanks to new discoveries by Gerard Milburn and other cutting-edge scientists, quantum computing is about to become a reality. In this book, the first one for the general public to explain the scientific ideas behind concepts seen before only in science fiction, physicist Milburn brings us the exciting world of phenomena of entanglement, where particles can be in two places at the same time, where matter on the quantum level can be teleported à la Star Trek's famous Transporter; and ...

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The Feynman Processor : Quantum Entanglement and the ...
The Feynman Processor: Quantum Entanglement and the Computing Revolution "If computational systems are a natural consequence of physical law, then a quantum computer is not only possible, but inevitable. It may take decades, perhaps a century, but a commercially viable quantum computer is a certainty." (p. 192)

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Predicts that quantum computation will bypass conventional computers, and explains quantum entanglement, how quantum computers might work, and the possibility of teleportation

Quantum computing, the reduction of computing elements to sizes far smaller than that of present-day chips, down to the size of individual atoms, presents new problems, problems on the quantum level. But thanks to new discoveries by Gerard Milburn and other cutting-edge scientists, quantum computing is about to become a reality. In this book, the first one for the general public to explain the scientific ideas behind concepts seen before only in science fiction, physicist Milburn brings us the exciting world of phenomena of entanglement, where particles can be in two places at the same time, where matter on the quantum level can be teleported à la Star Trek's famous Transporter; and where cryptographers can

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Constructing Unbreakable Computer Codes. Although other books and magazine articles have dealt with some of the subjects in this book, this is the first book for the layman to deal specifically with quantum computing, an area pioneered by the great physicist Richard Feynman, who first posed the challenge to scientists to devise the smallest, fastest computer elements, to take us to the absolute physical limits of computers. This book promises to both astound and educate every reader eager to keep abreast of the latest breakthroughs in physics and computers.

Conventional computers can't go on getting faster and smaller forever. Eventually the basic switches inside computers will reach atomic size. The unpredictability of matter at this level has forced scientists to rethink the way we could design, build and use these new quantum computers. It has already been proved that a quantum computer could solve certain problems like cracking codes much faster than a conventional computer.

"The text covers the basic building blocks of quantum information processing, quantum bits and quantum gates, showing their relationship to the key quantum concepts of quantum measurement, quantum state transformation, and entanglement between quantum subsystems; it treats quantum algorithms, discussing notions of complexity and describing a number of simple algorithms as well as the most significant algorithms to date; and it explores entanglement and robust quantum computation, investigating such topics as quantifying entanglement, decoherence, quantum error correction, and fault tolerance."--Back cover.

A quantum computer is a computer based on a computational model which uses quantum mechanics, which is a subfield of physics to study phenomena at the micro level. There has been a growing interest on quantum computing in the 1990's and some quantum computers at the experimental level were recently implemented.

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Quantum computers enable super-speed computation and can solve some important problems whose solutions were regarded impossible or intractable with traditional computers. This book provides a quick introduction to quantum computing for readers who have no backgrounds of both theory of computation and quantum mechanics. “ Elements of Quantum Computing ” presents the history, theories and engineering applications of quantum computing. The book is suitable to computer scientists, physicists and software engineers.

In *The Quantum Universe*, Brian Cox and Jeff Forshaw approach the world of quantum mechanics in the same way they did in *Why Does $E=mc^2$?* and make fundamental scientific principles accessible—and fascinating—to everyone. The subatomic realm has a reputation for weirdness, spawning any number of profound misunderstandings, journeys into Eastern mysticism, and woolly pronouncements on the interconnectedness of all things. Cox and Forshaw’s contention? There is no need for quantum mechanics to be viewed this way. There is a lot of mileage in the “ weirdness ” of the quantum world, and it often leads to confusion and, frankly, bad science. *The Quantum Universe* cuts through the Wu Li and asks what observations of the natural world made it necessary, how it was constructed, and why we are confident that, for all its apparent strangeness, it is a good theory. The quantum mechanics of *The Quantum Universe* provide a concrete model of nature that is comparable in its essence to Newton’s laws of motion, Maxwell’s theory of electricity and magnetism, and Einstein’s theory of relativity.

The race is on to construct the first quantum code breaker, as the winner will hold the key to the entire Internet. From international, multibillion-dollar financial transactions to top-secret government communications, all would be vulnerable to the secret-code-breaking ability of the quantum computer. Written by a renowned

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quantum physicist closely involved in the U.S. government ' s development of quantum information science, Schr ö dinger ' s Killer App: Race to Build the World ' s First Quantum Computer presents an inside look at the government ' s quest to build a quantum computer capable of solving complex mathematical problems and hacking the public-key encryption codes used to secure the Internet. The "killer application" refers to Shor ' s quantum factoring algorithm, which would unveil the encrypted communications of the entire Internet if a quantum computer could be built to run the algorithm. Schr ö dinger ' s notion of quantum entanglement—and his infamous cat—is at the heart of it all. The book develops the concept of entanglement in the historical context of Einstein ' s 30-year battle with the physics community over the true meaning of quantum theory. It discusses the remedy to the threat posed by the quantum code breaker: quantum cryptography, which is unbreakable even by the quantum computer. The author also covers applications to other important areas, such as quantum physics simulators, synchronized clocks, quantum search engines, quantum sensors, and imaging devices. In addition, he takes readers on a philosophical journey that considers the future ramifications of quantum technologies. Interspersed with amusing and personal anecdotes, this book presents quantum computing and the closely connected foundations of quantum mechanics in an engaging manner accessible to non-specialists. Requiring no formal training in physics or advanced mathematics, it explains difficult topics, including quantum entanglement, Schr ö dinger ' s cat, Bell ' s inequality, and quantum computational complexity, using simple analogies.

As part of the Physics 2010 decadal survey project, the Department of Energy and the National Science Foundation requested that the National Research Council assess the opportunities, over roughly the next decade, in atomic, molecular, and optical (AMO) science and technology. In particular, the National Research Council was

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asked to cover the state of AMO science, emphasizing recent accomplishments and identifying new and compelling scientific questions. Controlling the Quantum World, discusses both the roles and challenges for AMO science in instrumentation; scientific research near absolute zero; development of extremely intense x-ray and laser sources; exploration and control of molecular processes; photonics at the nanoscale level; and development of quantum information technology. This book also offers an assessment of and recommendations about critical issues concerning maintaining U.S. leadership in AMO science and technology.

In his foreword to Schrödinger's Machines, Paul Davies writes, "The nineteenth century was known as the machine age, the twentieth century will go down in history as the information age. I believe the twenty-first century will be the quantum age." Perhaps the most successful scientific theory in history, quantum mechanics has already ushered in the information age with inventions like the transistor and the laser. In Schrödinger's Machines, renowned quantum physicist Gerard Milburn explores how our ever-increasing ability to manipulate atomic and subatomic processes is turning purely hypothetical situations and concepts (of a truly weird nature) into concrete, practical devices-- resulting in a complete transformation of our world view. Imagine the creation of machines the size of molecules, detectors sensitive enough to pick up the sound of a pin dropping on the other side of the earth, the fabrication of new and exotic materials, and extraordinarily powerful computers that can process information in many alternative realities simultaneously, creating a whole new type of mathematics. This isn't science fiction, but just some of the breathtaking possibilities offered by quantum technology over the next fifty years. Leaving the common sense of Newtonian machines far behind, Schrödinger's Machines is an advance preview of the strange new world ahead. Clearly presented, and with an acute awareness of recent advances in the field, it's indispensable reading

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This book tells the story of the second quantum revolution which will shape the 21st century as much as the first quantum revolution shaped the 20th century. It provides unique orientation in today's discussion and the latest progress on the interpretation of quantum physics and its further technological potential. As you read this book the first prototypes of this revolution are being built in laboratories worldwide. Super-technologies such as nanotechnology, quantum computers, quantum information processing, and others will soon shape our daily lives, even if physicists themselves continue to disagree on how to interpret the central theory of modern physics. The book will thus also touch on the profound philosophical questions at the heart of quantum mechanics.

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