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This 2004 textbook provides a pedagogical introduction to the formalism, foundations and applications of quantum mechanics. Part I covers the basic material which is necessary to understand the ...

An Introduction to the Formalism, Foundations and Applications

"It can make humans more productive than we have ever imagined," said Sundar Pichai, the chief executive of Google's owner Alphabet.

Artificial Intelligence is more profound than fire, electricity, or the internet, says Google boss

These form crucial resources in quantum information theory, and also correspond to one of the most profound differences between the classical and quantum world ... significant contributions has been ...

Quantum information and foundations

Quantum computers are beginning to emerge in many industry and research labs. But what are qubits? And are the challenges ahead to control the quantum properties ...

What is Quantum Computing?

Many of us swing through gates every day—points of entry and exit to a space like a garden, park or subway. Electronics have gates too. These control the flow of information from one place to another ...

Opening the gates to the next generation of information processing

QIS technologies offer much more than just squeezing information into computers and increasing microchip speeds ...

The need for quantum technology in Pakistan

The National Science Foundation's Quantum Leap (QL) Big Idea seeks to go beyond ideas couched in classical approaches. QL will forge a paradigm shift by transitioning our thinking to truly quantum ...

Quantum Information Science and Engineering Research at NSF

The study could have applications in spintronics and quantum computing. It was conducted by an international collaboration and published in Nature. Its first author is a researcher at the University ...

Quantum phase transition discovered in a quasi-2D system consisting purely of spins

Watson Research Center and Gilles Brassard met in 1979 at the 20th IEEE Symposium on the Foundations ... as opposed to quantum key distribution where the actual encryption is classical.

What Is Quantum Cryptography

Xie Chen, professor of theoretical physics at Caltech, has been named a 2021 Simons Investigator, an honor that comes with \$100,000 in research support per year for five years. The intent of the award ...

Xie Chen Wins Simons Investigator Award

An efficient two-bit quantum logic gate has been out of reach, until now. Research from the McKelvey School of Engineering at Washington University in St. Louis has found a missing piece in the puzzle ...

Missing Piece Discovered in the Puzzle of Optical Quantum Computing

These are the minds that collectively created the scientific foundation upon which ... This is called quantum superposition. Second, in classical mechanics, objects can only "work" with ...

Quantum Computing Stumped Einstein 100 Years Ago. Today, It's Ready to Change the World.

The inaugural 2020 IEEE Quantum Week built a solid foundation and was highly successful — over ... field-of-interest includes all electron and ion based devices, in their classical or quantum states, ...