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Fields And Waves Dover

Researchers at the University of Tsukuba use radio-frequency waves to image "spin-locked" defects in diamond with record-breaking resolution, which may lead to advances in material characterization ...

Seeing With Radio Waves: Breakthrough May Advance Quantum Computing

"X-rays are typically produced by extremely powerful and violent phenomena such as black holes and neutron stars, so it seems strange that mere planets produce them too," said one researcher.

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Astronomers finally uncover 40-year mystery of Jupiter's epic X-ray aurora flares

Planetary astronomers combined measurements taken by NASA's Juno spacecraft orbiting Jupiter, with data from ESA's (the European Space Agency's) Earth-orbiting XMM-Newton mission, to solve a ...

40-Year Mystery Solved: Source of Jupiter's X-Ray Flares Uncovered

Electromagnetic waves travel at 300,000,000 metres per second (m/s) through a vacuum. Often a phrase is used to help remember the

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order of the groups of the electromagnetic spectrum such as Roman ...

EM waves and the electromagnetic spectrum

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 ...

The next generation of information processing is through coherent gate operations

Honeywell Quantum Solutions and Cambridge Quantum have taken an important leap into

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quantum computing with plans to merge and form an independent company that combines Honeywells ...

Honeywell and Cambridge Quantum to Form Quantum Computing Company

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

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Electromagnetic waves are transverse waves. Their vibrations or oscillations are changes in electrical and magnetic fields at right angles to the direction of wave travel. All electromagnetic ...

Properties, uses and hazards of electromagnetic waves

In a new study, planetary researchers from the UK, the US, China and Belgium have discovered that the auroral X-ray emissions were triggered by periodic vibrations of Jupiter's magnetic field lines.

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Planetary Scientists Solve Mystery of Jupiter's X-Ray Auroral Flares

Jupiter's mysterious x-ray auroras have puzzled scientists for decades. Now they may know how they are created.

Jupiter's 'northern lights' are powered by giant waves

Experts in magnetic resonance imaging (MRI) at the DZNE are optimizing the operation of MRI scanners as part of an international research effort to enable visualization of finer details of the human ...

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Optimizing the operation of MRI scanners to visualize finer details of the brain

Experiments had already shown that the movement of electrical charges appeared to produce magnetic fields ... so-called electromagnetic waves, which he proved were travelling at the speed of ...

Electromagnetic spectrum

and an excitation—kind of like a wave—in a quantum field. A quantum field, such as the electromagnetic field, is a kind of energy and potential spread throughout space. Physicists think of every ...

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What is a photon?

In the process, the field launches powerful electromagnetic waves in the direction of Earth's surface. Electrons then hitch a ride on these waves and surf their way toward Earth's upper atmosphere.

Scientists have solved a decades-old mystery about how auroras form in the sky

The argument by Feynman was that gravitational waves would move masses along a rod, just as ... [+] electromagnetic waves ... strength of the gravitational field, the

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curvature of space, and ...

Ask Ethan: Can Gravitational Waves Pass Through Black Holes?

Scientists have devised a means of achieving improved information processing with a new technology for effective gate operation. This technology has applications in classical electronics as well as ...

Opening the gate to the next generation of information processing

Jupiter's intense aurora polaris, also known as northern and southern lights, have puzzled

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astronomers around the world. Now, scientists have finally uncovered the mystery behind the gas giant 's epic ...

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