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was used in primitive magnetic compasses. Today, thanks to the theory of quantum mechanics we now understand the nature of magnetism, too, with the concept of spin explaining the behaviour of ...

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The question posed by the researchers was whether the concept ... strong magnetic fields, was a formidable experimental challenge, according to Larrea. The experiments were performed in Lausanne, ...

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Speedy magnetic ... control magnetism with light and light with magnetism on hitherto unachievable timescales. " Michael Coey, a professor in Trinity ' s School of Physics and CRANN, added, " This ...

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(3) Maxwell ' s equations, plane EM waves in infinite media, reflection and refraction of EM waves, guided EM waves, radiation of EM waves, relativistic treatment of electricity and magnetism ...

Department of Physics

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Magnetic Effects of Current and Magnetism, Electromagnetic Induction and Alternating Currents, Electromagnetic Waves, Optics, Dual Nature of Matter and Radiation, Atoms and Nuclei, Electronic Devices.

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The magnetic behavior intrinsic ... person analogous to energy exchange in magnetism," Souza explained. Using other more complex concepts from physics such as the Bethe lattice (see figure ...

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While researchers already understand how the electron's spin can produce magnetism ... magnetic field is a major step forward that could unlock new horizons in controlling and harnessing quantum ...