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Electromagnetic waves travel at 300,000,000 metres per second (m/s) through a vacuum. Often a phrase is used to help remember the order of the groups of the electromagnetic spectrum such as Roman ...

EM waves and the electromagnetic spectrum

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Electromagnetic (EM) metasurfaces are essential in a wide range of EM engineering applications, from incorporated into antenna designs to separate devices like radome. Near-field manipulators are a ...

All-metal wideband metasurface for near-field transformation of medium-to-high gain electromagnetic sources

Nickel-zinc ferrite ($\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$) powders were prepared by the conventional solid-state route and sintered at 1100 and 1300 °C for utilization as a tile electromagnetic wave absorber.

Structural, magnetic, and gigahertz-range electromagnetic wave absorption properties of bulk Ni-Zn ferrite

Starting from Boltzmann's approximate equation, the Bhatnagar-Gross-Krook (BGK) collision model of inhomogeneous dusty plasma is derived. In the case of

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an external magnetic field, the expression of ...

Research on Electromagnetic Wave Propagation Characteristics of Fully Ionized Inhomogeneous Dusty Plasma in a Magnetized BGK Model

Bonnethead sharks swam in the direction of their home waters when placed in a tank charged with an electromagnetic field ...

New Evidence Suggests Sharks Use Earth's Magnetic Field to Navigate

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

Provided by Fairbanks KTVF NASA's Black Brant XII sounding rocket will launch this Saturday in order to conduct an experiment called KiNET-X, lead by

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Peter Delamere of UAF and ...

Sci-Friday: Weekend rocket launches experiment to solve fundamental aurora mystery

The resulting field therefore will be a compound one. This is important for microwave distance measurements, where the distance is derived...

Electromagnetic wave propagation in the atmosphere is ...

Electromagnetic Distance Measurement

Enter OpenEMS, a free and open electromagnetic field solver. We would like to tell ... ranging from a simple wave guide to a sophisticated phased array of patch antennas. Our advice?

OpenEMS Makes Electromagnetic Field Solving... Merely Difficult

Scientists at PPPL have received three awards from NASA totaling over \$2 million to conduct research that could help predict the potentially damaging

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effects of blasts of subatomic particles from the ...

Space weather and solar blobs

Alexander Balandin's Vannevar Bush Faculty Fellowship will help advance quantum materials for electronics and energy conversion ...

\$3 million award to create a new field of research in one-dimensional quantum materials

A self-taught authority on electromagnetic theory, telegraphy and telephony, Oliver Heaviside (1850-1925) dedicated his adult life to the improvement of electrical technologies. Inspired by James ...

Electrical Papers

Researchers at Georgia Tech have come up with a concept for a wireless power grid that runs on 5G's mm-wave frequencies. Because 5G base stations beam data through densely packed electromagnetic waves ...

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We Could Really Have a Wireless Power Grid That Runs on 5G

The universe we see is only the very tip of the vast cosmic iceberg. The hundreds of billions of galaxies it contains, each of them home to billions of stars, planets and moons as well as massive star ...

Dark Energy Experiment 16 Years in the Making Could Illuminate Origin, Evolution, Fate of Universe

Electromagnetic complex media are artificial materials that affect the propagation of electromagnetic waves in surprising ways not usually seen in nature.

Mathematical Analysis of Deterministic and Stochastic Problems in Complex Media Electromagnetics

Nuclear physicists make new, high-precision measurement of the layer of neutrons that encompass the lead

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nucleus, revealing new information about neutron stars. Nuclear physicists have made a new, hig ...

Highly Accurate Measurements Show Neutron Star "Skin" Is Less Than a Millionth of a Nanometer Thick

Recently, a research team from University of Southampton, for the first time, proposed basic concepts and solid mathematics for STNS states of electromagnetic waves for quantitatively measuring ...

Measuring space-time 'entanglement' of electromagnetic waves

The point is any oscillating electric charge will emit an electromagnetic wave. Daylight thus exists because electrons in the sun are constantly being vibrated. They send waves down the field ...

Hitting the Books: How Planck's

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'chain of tiny beads' helps explain why lightbulbs work

This can allow them to manipulate electromagnetic waves - leading to metamaterial surfaces being ... such as the extreme gravitational fields created around black holes.

Metasurfaces could offer possibility of 'cloak of silence'

Biography Shaoqing Guo was born in Hebei, China. He received the B.Sc. degree in detection, guidance, and control technology from the School of Electrical Engineering and Optical ...

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