

Electromagnetism Problems With Solutions Ashutosh Pramanik

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Replacing digital with analog circuits and photonics can improve performance and power, but it's not that simple.

Developers Turn To Analog For Neural Nets

For years, sufferers of EHS have maintained that the electromagnetic fields around us are dangerous. A handful of scientists agree.

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Science vs science: The contradictory fight over whether electromagnetic hypersensitivity is real

This paper presents a sub-block algorithm for the time stepping finite element solution of problems in which sets of electromagnetic field equations, circuit equations and mechanical equation are ...

A novel approach to circuit-field-torque coupled time stepping finite element modeling of electric machines

The Ogallala Aquifer helped transform western Kansas from an agricultural wasteland into America's breadbasket. Parts of it are beginning to run dry.

Farmers trying to save the Ogallala Aquifer face tension from peers. But their efforts are seeing better profits.

Active filtering of switching noise on a DC power rail is a well-

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known concept for reducing resultant EMI but it's challenging to implement; a new DC/DC controller incorporates it into its basic

...

Active filtering: Attenuating switching-supply EMI

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

What are the best methods for maintaining the high efficiency of a SMPS without suffering from the detrimental effects of EMI?

Mitigating EMI in Switch-Mode Power Supplies

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Large voltage conversion ratios of switching power converters operating at frequencies in the megahertz range are difficult to achieve because of the short pulses of the control signals for the ...

Modeling of Conducted EM Emissions of Synchronous Buck Converters for Different Voltage Conversion Ratios

This simple electrical device does much of the fundamental work of modern civilization, and it does so modestly and invisibly.

A Brief History of Transformers (Not the Robot Kind)

The term metamaterials refers to a broad class of manufactured materials composed of structures that are finer than the wavelength of visible light, radio waves and other types of electromagnetic ...

These materials could make science fiction a reality

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The money will support research and internship opportunities, with a focus on increasing the number of students of color in science, technology, engineering and math fields, Energy Secretary Jennifer ...

Energy Department awards \$17.3 million in research funding, targets students of color

Maximize your search for finding buried treasure with a metal detector. Keep reading to learn how to use a metal detector.

How to use a metal detector

In research, Taflove developed fundamental theoretical approaches, algorithms, and scientific and engineering applications of the FDTD method computational solutions ... to a vast array of problem ...

Professor Allen Taflove Passes Away

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Apr 28, 2021 (Market Insight Reports) -- Selbyville, Delaware
Electromagnetic Surgical Navigation ... any of these objectives.
Is there a problem with this press release? Contact the source ...

vElectromagnetic Surgical Navigation System Market Growth Prospects, Key Vendors, future to Scenario Forecast to 2025

Aerospace propulsion company LaunchPoint Electric Propulsion Solutions, Inc. - a leader in developing electric motors, hybrid-electric propulsion ...

LaunchPoint to Present at World's Leading International Technical Event on Vertical Flight Technology

The target was equipped with a small radar reflector and a repeater that put out an electromagnetic signal ... unmanned plugged into that targeting solution," U.S. Pacific Fleet Maritime

...

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Unmanned Systems, Passive Sensors Help USS John Finn Bullseye Target With SM-6

End-user/Technology RF equipment is used in video broadcasting, telecommunications, satellite communications and radio communications. In addition to their normal function of testing, they also have ...

RF test equipment Market by Technology, Size, Share and Top Key Players During 2020-2022

As a worldwide leader in digital signature and pen display solutions, EMR continues to develop innovative high-end electromagnetic resonance and active capacitive stylus pens and has implemented ...

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