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Screens may be larger on smartphones now, but nearly every other component is designed to be thinner, flatter and tinier than ever before. The engineering requires a shift from shapely, and bulky ...

Beyond 5G: Wireless communications may get a boost from ultra-short collimating metalens

The Promag W 800 is a battery-powered, electromagnetic flowmeter ... or to Endress+Hauser's cloud-based Netilion Water Network Insights solution for monitoring water networks. This allows, for example ...

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Promag W 800 □ Battery-Powered and Cloud-Connected Flowmeter

They found their solution from Sotera Defense Solutions ... user defined display of the electromagnetic operational environment from battalion to theater level, Army officials say.

Army chooses Sotera to provide EW planner to jam enemy RF, safeguard friendly systems

Electromagnetic interference (EMI ... RFI experts at Curtiss-Wright Defense Solutions use an anechoic chamber to determine some of the best ways of mitigating unwanted RF energy.

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Mitigating electromagnetic and radio-frequency interference
This applies both for semiconductor chip-design and manufacturing. The timing, conductance, insulation and resistance variations, inter-device and inter-terminal electromagnetic interference was rised ...

45nm to 28nm to 22nm to 14nm: A steep climb for the semiconductor industry

For instance, when welding vehicle bodies, strong electromagnetic fields can make conventional sensors malfunction. To date, the solution has been expensive, special sensors and elaborate measures ...

Microwaves for cylinder sensing

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mPathix's lead product is the SOLACE electromagnetic induction device, which was originally cleared by FDA for treatment of selected medical conditions such as relief of pain, muscle spasms ...

Qualis Innovations Inc. Completes Share Exchange Agreement with mPathix Health Inc. (formerly EMF Medical Devices, Inc.)

G Water, LLC. Seeks Partners and Licensees for Patented Salionic TM Solution; Unique, Organic Molecular Structure is a Scientific Breakthrough for Healing, Repairing and Rejuvenation of Cells and ...

G Water Introduces Novel, Organic Solution That Improves

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Lives

Resistance welding is known to create electromagnetic interference at ... On the surface, it appears air cores provide the ideal solution to all welding sensor applications. However, the lack ...

Sensor Sense: Inductive sensors and resistance welding
The BXII Series now provides the highest level of speed control, up to 4,000 r/min with a speed regulation of +0.05% and is available from 30 W up to 400 W, in round shaft, parallel shaft gearheads or ...

Oriental Motor Introduces BXII Series Brushless Motor & Driver Package

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With Wellify, all the files are streamed through a cloud-based solution, allowing users immediate access without the need to download large quantities of RWI data sets or to install and integrate new ...

Norwegian trio develop drill cuttings digital visualization tool
These systems need to coexist without being disrupted by unintended electromagnetic interference ... as it allows a design engineer to pick out a solution that specifically meets their needs.

Filtering and Suppressing EMI in the Smart Factories of the Future

TRONDHEIM, Norway □ Electromagnetic Geoservices ASA

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(EMGS) has signed a two-year acquisition contract with PEMEX. The value of the contract is expected to be between \$29.3 million and \$73.3 million.

EMGS secures two-year acquisition contract with PEMEX
Comparing A-PHY's PAMx/JITC/RTS solution with a PAMx/FEC implementation ... ultra-high immunity to electromagnetic-interference (EMI) effects in demanding automotive conditions, cable reach ...

MIPI A-PHY: A Resilient Asymmetric Data Transport for a Vehicle's Lifespan
Electromagnetic & Security industries. Michael Schwarm, the VP of Worldwide Sales and Marketing for APITech said, "We

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are very excited for the opportunity to re-engage our customers face to face ...

APITech announces Trade Show participation in 2021
In a March 2020 press release praising the effectiveness of its preventative medicine, the Navy proudly declared: "No cases of COVID-19 have been diagnosed aboard any U.S. 7th Fleet Navy ... cyber, ...

Synthetic Bioweapons Are Coming

"ViewSonic electromagnetic pen displays provide natural ... In addition, a series of educational handwriting solutions (PD1330, PF0730-I0WW, ID710-BWW) are also being showcased at the online ...

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ViewSonic Launches the First Desktop Multi-Identity Authentication System to Accelerate Paperless Development
A team of Japan-based researchers says yes, thanks to a solution they published on July 7th in Applied Physics ... thin interface that can manipulate electromagnetic waves -- specifically to ...

As the availability of powerful computer resources has grown over the last three decades, the art of computation of electromagnetic (EM) problems has also grown - exponentially. Despite this dramatic growth, however, the EM

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community lacked a comprehensive text on the computational techniques used to solve EM problems. The first edition of Numerical Techniques in Electromagnetics filled that gap and became the reference of choice for thousands of engineers, researchers, and students. The Second Edition of this bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard algorithm for the finite difference time domain (FDTD) method and treatment of absorbing boundary conditions in FDTD, finite element, and transmission-line-matrix methods. The author also added a chapter on the method of lines. Numerical Techniques in Electromagnetics continues to teach readers

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how to pose, numerically analyze, and solve EM problems, give them the ability to expand their problem-solving skills using a variety of methods, and prepare them for research in electromagnetism. Now the Second Edition goes even further toward providing a comprehensive resource that addresses all of the most useful computation methods for EM problems.

This book is aimed to provide the basic preparatory material to the students who wish to study the electromagnetism as part of their course study. In the discussion of different

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concepts of electromagnetism, use of vectors and coordinates systems are unavoidable. Most of the books avoid details of these topics due to scope of the book or the syllabus. Most of the students take it for granted the formulae stated in the book. Some students when try to understand the three dimensional aspects of the coordinate systems they find some confusion. To help student clear their concepts on these aspects and to answer how different readily given expressions are derived we have come forward to write this book. The book starts discussion from very basic definitions of vector terminology and then relates this with the coordinate systems. Most needed coordinate systems are Cartesian, cylindrical and spherical coordinate systems. These systems are discussed from the basic level and culminate into the

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derivations of the longer expressions. As problems are already available in the books of similar nature authors have not included them in this book. It is hoped that this book would clear most of the concepts needed to study the electromagnetism.

Engineering Electromagnetics is a classic book that provides a comprehensive discussion on core concepts of the subject area. It follows an application-based approach, by supporting theoretical concepts with numerous solved examples and illustrations. This adapted edition focuses on enhancing the electrostatics portion and adding more solved examples. With all its careful revisions, the book is now a more useful resource for students of electrical engineering as well as

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electronics and communication engineering. Salient Features:

1. In-depth coverage of electrostatics and magnetostatics portions
2. A new chapter on Electromagnetic Radiation and Antennas
3. A focused chapter on Transmission Lines
4. Enhanced discussion on topics like vector analysis, properties of dielectric materials, interpretation of Maxwell's equations, etc.
5. Rich pedagogy: 100+ solved examples 100+ drill problems 500+ review problems

Now in its Seventh Edition, Bill Hayt and John Buck's Engineering Electromagnetics is a classic book that has been updated for electromagnetics today. This widely respected

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book stresses fundamentals and problem solving, and discusses the material in an understandable, readable way. Numerous illustrations and analogies are provided to aid the reader in grasping difficult concepts. In addition, independent learning is facilitated by the presence of many examples and problems. Important updates and revisions have been included in this edition. One of the most significant changes is the repositioning and rewriting of the transmission lines chapter. This chapter is now ahead of the plane waves chapter, and can be used at any point in the course, including at the beginning. Book jacket.

"Now in its Seventh Edition, Bill Hayt and John Buck's Engineering Electromagnetics is a classic book that has been

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updated for electromagnetics today. - This widely respected book stresses fundamentals and problem solving, and discusses the material in an understandable, readable way. Numerous illustrations and analogies are provided to aid the reader in grasping difficult concepts. - In addition, independent learning is facilitated by the presence of many examples and problems."--Jacket.

Written by a leading expert in the field, this practical new resource presents the fundamentals of electromagnetics and antenna technology. This book covers the design, electromagnetic simulation, fabrication, and measurements for various types of antennas, including impedance matching techniques and beamforming for ultrawideband dipoles,

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monopoles, loops, vector sensors for direction finding, HF curtain arrays, 3D printed nonplanar patch antenna arrays, waveguides for portable radar, reflector antennas, and other antennas. It explores the essentials of phased array antennas and includes detailed derivations of important field equations, and a detailed formulation of the method of moments. This resource exhibits essential derivations of equations, providing readers with a strong foundation of the underpinnings of electromagnetics and antennas. It includes a complete chapter on the details of antenna and electromagnetic test and measurement. This book explores details on 3D printed non-planar circular patch array antenna technology and the design and analysis of a planar array-fed axisymmetric gregorian reflector. The lumped-element impedance matched

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antennas are examined and include a look at an analytic impedance matching solution with a parallel LC network. This book provides key insight into many aspects of antenna technology that have broad applications in radar and communications.

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