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Extracting DC from AC without any magnetics at all? A new solid-state circuit breaker put forth by Amber

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Solutions in partnership with Infineon Technologies stands to cause some pretty intense waves ...

Ousting 1900s-era Tech? Solid-state Circuit Breakers Extract DC from AC without Magnetics

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Atom Power identified that electric vehicles could be charged directly from their circuit breakers, enabling easy-to-use, 100 percent digital control with flexible installation solutions, while ...

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Atom Power Expands into Electric Vehicle Charging and Residential Markets

Just like elastic rubber, the stretchable circuits can return to their original shape every time they are stretched.

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Stretchable Circuits: The New Era of Circuit Designing

A team of researchers from the Department of Mechanical Engineering and the Macromolecules Innovation Institute at Virginia Tech has created a new type of soft electronics, paving the way for devices

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...

New study gets drop on soft, flexible circuits

The work between Infineon and Amber uses Amber silicon embedded with intelligence to replace mechanical and

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magnetic components typically found in billions of circuit breakers and switches ...

Infineon and Amber collaborate on solid-state electricity control in silicon
Researchers from the IITB and Imec

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developed a mathematical model to capture manufacturing variations in the device and validated it experimentally.

New Experimentally Validated Device Models Can Improve Circuit Performance

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Chemical engineer Zhenan Bao and her team of researchers at Stanford have spent nearly two decades trying to develop skin-like integrated circuits that can be stretched, folded, bent and ...

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New chemistry enables using existing technology to print stretchable, bendable circuits on artificial skin Radio Frequency. The global radio frequency integrated circuits (RFIC) market is anticipated to grow at around 8% CAGR through the period of 2021 to 2031, and reach a valuation of ...

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Radio Frequency Integrated Circuit Sales will rise at 8.0% CAGR between 2021 and 2031

The Vacuum Circuit Breakers Market study provides details of market dynamics affecting the market, market

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size, and segmentation, and casts a shadow over the major market players by highlighting the ...

Vacuum Circuit Breakers Market Size, Share 2021-2028 | Top Key Vendors – ABB, Siemens, Alstom, General

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Electric, Toshiba, Eaton
Infineon Technologies and Amber
Solutions today announced an alliance
on a range of silicon opportunities
anchored around Amber's
breakthrough digital control of
electricity with embedded intelligence

...

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Infineon and Amber to Collaborate on Commercialization of Amber's Breakthroughs for Digital Control of Electricity in Silicon Architecture
Ramy Tantawy has a big vision for the young integrated circuit design house,

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SenseICs, that he co-founded here in Columbus. “I wanted to build the next silicon farm to compete with Silicon Valley,” ...

Columbus company wins \$2M-plus from DOD for integrated circuit design

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house

Electrical Components International, Inc. ("ECI"), a leading global supplier of wire harnesses, electrical components, and sub-assemblies for diversified industrial markets, today announced the ...

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Electrical Components International
Acquires Promark Electronics
She's back gigging at Chester
Comedy Festival, after a lockdown that
looked likely to mangle her
momentum. But Maisie Adam has a
hardy, punky, bring-it-on attitude to

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stand-up - much of which comes ...

Circuit Training 143: Maisie Adam is Making the Most of It
DITEK, the leading provider of surge protection solutions, announces the launch of a new modular surge

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protection solution that provides
tailored multi-voltage protection for all
varieties of ...

Ditek's Versa-Module 2 Series Surge
Protection Solution
Circuit Breaker and Fuses Market are

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expected to reach USD 11 10 billion by 2027 witnessing market growth at a rate of 5 in the forecast period of 2021 to 2027 The circuit breakers and fuses market is ...

Circuit Breaker and Fuses Market

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Share, Demand Analysis, Growth, Trends and Forecast - 2027

Five-year-old GRST has clinched an agreement with a key shareholder to build a US\$40 million plant to make – and later recycle – the lithium-ion batteries.

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Hong Kong technology start-up GRST seeks to revolutionise electric-car battery manufacturing on sustainability and costs

A Latest intelligence report published by AMA Research with title "Hybrid Integrated Circuits Market Outlook to

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2026".

Hybrid Integrated Circuits Market
Giants Spending Is Going to Boom
with Crane Interpoint, VPT, MDI, MSK
The "Mineral Insulated Cable Market
Size, Market Share, Application

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Analysis, Regional Outlook, Growth Trends, Key ...

The fourth edition of this work continues to provide a thorough perspective of the subject,

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communicated through a clear explanation of the concepts and techniques of electric circuits. This edition was developed with keen attention to the learning needs of students. It includes illustrations that have been redesigned for clarity, new problems and new worked examples.

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Margin notes in the text point out the option of integrating PSpice with the provided Introduction to PSpice; and an instructor's roadmap (for instructors only) serves to classify homework problems by approach. The author has also given greater attention to the importance of circuit memory in

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electrical engineering, and to the role of electronics in the electrical engineering curriculum.

For use in an introductory circuit analysis or circuit theory course, this text presents circuit analysis in a clear manner, with many practical

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applications. It demonstrates the principles, carefully explaining each step.

REA's Electric Circuits Problem Solver Each Problem Solver is an insightful and essential study and solution guide chock-full of clear,

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concise problem-solving gems. Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions

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available. They're perfect for undergraduate and graduate studies. This highly useful reference is the finest overview of electric circuits currently available, with hundreds of electric circuits problems that cover everything from resistive inductors and capacitors to three-phase circuits and

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state equations. Each problem is clearly solved with step-by-step detailed solutions.

Electrical-engineering and electronic-engineering students have frequently to resolve and simplify quite complex circuits in order to understand them or

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to obtain numerical results and a sound knowledge of basic circuit theory is therefore essential. The author is very much in favour of tutorials and the solving of problems as a method of education. Experience shows that many engineering students encounter difficulties when they first

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apply their theoretical knowledge to practical problems. Over a period of about twenty years the author has collected a large number of problems on electric circuits while giving lectures to students attending the first two post-intermediate years of University engineering courses. The purpose of

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this book is to present these problems (a total of 365) together with many solutions (some problems, with answers, given at the end of each Chapter, are left as student exercises) in the hope that they will prove of value to other teachers and students. Solutions are separated from the

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problems so that they will not be seen by accident. The answer is given at the end of each problem, however, for convenience. Parts of the book are based on the author's previous work Electrical Engineering Problems with Solutions which was published in 1954.

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"Alexander and Sadiku's sixth edition of Fundamentals of Electric Circuits continues in the spirit of its successful previous editions, with the objective of presenting circuit analysis in a manner

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that is clearer, more interesting, and easier to understand than other, more traditional texts. Students are introduced to the sound, six-step problem solving methodology in chapter one, and are consistently made to apply and practice these steps in practice problems and

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homework problems throughout the text."--Publisher's website.

Electrical Circuit Theory and Technology is a fully comprehensive text for courses in electrical and electronic principles, circuit theory and electrical technology. The coverage

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takes students from the fundamentals of the subject, to the completion of a first year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for pre-degree vocational courses, especially where progression to higher levels of study is likely. John

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Bird's approach, based on 700 worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making

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this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and laplace transforms, with the content carefully matched to typical undergraduate modules. Free Tutor Support Material

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including full worked solutions to the assessment papers featured in the book will be available at <http://textbooks.elsevier.com/>. Material is only available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material

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please follow the guidelines in the book.

Alexander and Sadiku's fifth edition of Fundamentals of Electric Circuits continues in the spirit of its successful previous editions, with the objective of presenting circuit analysis in a manner

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that is clearer, more interesting, and easier to understand than other, more traditional texts. Students are introduced to the sound, six-step problem solving methodology in chapter one, and are consistently made to apply and practice these steps in practice problems and

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homework problems throughout the text. A balance of theory, worked examples and extended examples, practice problems, and real-world applications, combined with over 468 new or changed homework problems for the fifth edition and robust media offerings, renders the fifth edition the

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most comprehensive and student-friendly approach to linear circuit analysis. This edition retains the Design a Problem feature which helps students develop their design skills by having the student develop the question as well as the solution. There are over 100 Design a Problem

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exercises integrated into the problem sets in the book.

As the availability of powerful computer resources has grown over the last three decades, the art of

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computation of electromagnetic (EM) problems has also grown - exponentially. Despite this dramatic growth, however, the EM community lacked a comprehensive text on the computational techniques used to solve EM problems. The first edition of Numerical Techniques in

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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

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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

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author also added a chapter on the method of lines. Numerical Techniques in Electromagnetics continues to teach readers 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

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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.

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