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Transforming a layered ferromagnet for future spintronics
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When exposed to a strong magnetic field, some superconductors ... but we probably won't be transforming our electronics infrastructure anytime soon. Here's the science of what's going ...

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Magnetic Materials have been increasingly used in the power generation sector. These materials are used in motors to generate power and transmission of electricity. Magnetic materials majorly ...

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This tenth, extensively revised edition of Electricity and Magnetism continues to provide students a detailed presentation of the fundamental principles, synthesis and physical interpretation of electric & magnetic fields. It follows full vector treatment in discussing topics such as electrostatics, magnetostatics, DC circuits, AC circuits, electrodynamics and electromagnetic waves. While retaining its modern outlook to the subject, this new edition has been revised as per the latest syllabi of various universities. Students pursuing BSc Physics course would find this textbook extremely useful.

This popular dictionary, formerly published as the Penguin Dictionary of Electronics, has been extensively revised and updated, providing more than 5,000 clear, concise, and jargon-free A-Z entries on key terms, theories, and practices in the areas of electronics and electrical science. Topics covered include circuits, power, systems, magnetic devices, control theory, communications, signal processing, and telecommunications, together with coverage of applications areas such as image processing, storage, and electronic materials. The dictionary is enhanced by dozens of equations and nearly 400 diagrams. It also includes 16 appendices listing mathematical tables and other useful data, including essential graphical and mathematical symbols, fundamental constants, technical reference tables, mathematical support tools, and major innovations in electricity and electronics. More than 50 useful web links are also included with appropriate entries, accessible via a dedicated companion website. A Dictionary of Electronics and Electrical Engineering is the most up-to-date quick reference dictionary available in its field, and is a practical and wide-ranging resource for all students of electronics and of electrical engineering.

"This book introduces readers to the fundamentals, basic principles, properties, and applications of electrical polymers. It provides the principles in an extended and accessible way, as well as including examples of state-of-the-art scientific issues. The book evaluates emerging technologies such as light emitting diodes, soft electronics, and conductive fibers used for smart clothing or electromagnetic shields, and explains the advantages of conductive polymers as well as their processibility and commercial use. The coverage includes problems for study with solutions within chapters on chemical and physical properties and basic concepts"--

This is a fully revised and updated edition of a widely used introductory textbook on electromagnetism. It covers all the fundamental aspects of this important topic in electrical engineering. The approach is eminently practical and requires little mathematics other than elementary differentiation, integration, and trigonometry. It will continue to appeal to students studying this conceptually challenging but fundamental subject. New sections on electromechanics (conversion of electric and magnetic energy in mechanical energy and vice versa) and high-frequency phenomena (transmission lines, waveguides, optical fibres, and radio propagation) enhance the usefulness of the book.

This text on the electrical, optical, magnetic, and thermal properties of materials stresses concepts rather than mathematical formalism. Suitable for advanced undergraduates, it is intended for materials and electrical engineers who want to gain a fundamental understanding of alloys, semiconductor devices, lasers, magnetic materials, and so forth. The book is organized to be used in a one-semester course; to that end each section of applications, after the introduction to the fundamentals of electron theory, can be read independently of the others. Many examples from engineering practice serve to provide an understanding of common devices and methods. Among the modern applications covered are: high-temperature superconductors, optoelectronic materials, semiconductor device fabrication, xerography, magneto-optic memories, and amorphous ferromagnetics. The fourth edition has been revised and updated with an emphasis on the applications sections, which now cover devices of the next generation of electronics.

The ultimate alphabetically arranged thesaurus that will help you find the right word every time!now bigger and better than ever before! This all-new edition of the classic reference work is the one thesaurus no home or office should be without. As easy to use as a dictionary!and just as important for you to own!this is a unique and indispensable treasury of words that will enable you to express your ideas clearly and effectively. With the synonyms and antonyms for each word listed alphabetically for quick, convenient use, this superior reference volume will help you build your vocabulary, improve your writing skills, and enrich your powers of expression. \u2022 Simple to use!no index required \u2022 More than 5,000 new words and phrases \u2022 2,000 new synonym entry words for more efficient cross-referencing \u2022 30 new categories \u2022 Easy-to-read double-column format \u2022 Latest colloquial and slang terms \u2022 Quotations and phrases that reveal the fascinating history of each word and the ideas it represents

Revised and updated throughout, the second edition of Energy-Efficient Electric Motors provides guidelines for picking and using electric motors on an energy conservation and life-cycle cost basis - emphasizing both single- and three-phase motors in the 1- to 200-hp range that offer maximum opportunities for energy savings.;Maintaining the features of the first edition, this concise resource: explains current improvements in electric motor capabilities and recently adopted NEMA energy-efficient motor standards; contains a new section about the power factor with nonlinear loads; covers the performance of polyphase induction motors supplied by adjustable frequency power supplies for several types of loads, presents information on numerous kinds of power semiconductors used in variable-frequency power supply systems; provides expanded coverage comparing various types of adjustable speed drives when applied to constant torque and variable torque loads; and contains a new summary checklist criteria for selecting induction motors for adjustable frequency drive systems.;Generously illustrated with nearly 200 figures and tables, the second edition of Energy-Efficient Electric Motors is timely reading for electrical, electronics, mechanical, consulting, specifying, and plant engineers; plant and purchasing managers; original equipment, heating, ventilating, and air-conditioning manufacturers; and continuing-education courses in these disciplines.