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Antonenko has a Bachelor of Science degree in Electrical Engineering from the University of Alberta. " Eleven Engineering and its SKAA products and technology have built quite an impressive reputation ...

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She also launched and was founding Editor-in-Chief of the open-access electronic journal Global Health Innovation. In addition she edited the open-access eBook Biomedical Engineering for Africa ...

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Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students outside electrical and electronics engineering to easily

This single source reference offers a pragmatic and accessible approach to the basic methods and procedures used in the manufacturing and design of modern electronic products. Providing a strategic yet simplified layout, this handbook is set up with an eye toward maximizing productivity in each phase of the electronics manufacturing process. Not only does this handbook inform the reader on vital issues concerning electronics manufacturing and design, it also provides practical insight and will be of essential use to manufacturing and process engineers in electronics and aerospace manufacturing. In addition, electronics packaging engineers and electronics manufacturing managers and supervisors will gain a wealth of knowledge.

2010 First International Conference on Electrical and Electronics Engineering was held in Wuhan, China December 4-5. Advanced Electrical and Electronics Engineering book contains 72 revised and extended research articles written by prominent researchers participating in the conference. Topics covered include, Power Engineering, Telecommunication, Control engineering, Signal processing, Integrated circuit, Electronic amplifier, Nano-technologies, Circuits and networks, Microelectronics, Analog circuits, Digital circuits, Nonlinear circuits, Mixed-mode circuits, Circuits design, Sensors, CAD tools, DNA computing, Superconductivity circuits. Electrical and Electronics Engineering will offer the state of art of tremendous advances in Electrical and Electronics Engineering and also serve as an excellent reference work for researchers and graduate students working with/on Electrical and Electronics Engineering.

The omnipresence of electronic devices in our everyday lives has been accompanied by the downscaling of chip feature sizes and the ever increasing complexity of digital circuits. This book is devoted to the analysis and design of digital circuits, where the signal can assume only two possible logic levels. It deals with the basic principles and concepts of digital electronics. It addresses all aspects of combinational logic and provides a detailed understanding of logic gates that are the basic components in the implementation of circuits used to perform functions and operations of Boolean algebra. Combinational logic circuits are characterized by outputs that depend only on the actual input values. Efficient techniques to derive logic equations are proposed together with methods of analysis and synthesis of combinational logic circuits. Each chapter is well structured and is supplemented by a selection of solved exercises covering logic design practices.

As per the New syllabus & Regulations 2017 prescribed by the Anna University, Chennai, this book "PHYSICS FOR ELECTRONICS ENGINEERING (PH8253)" has been written by Dr. G. SHANMUGAM, Former Assistant Professor, Department of Physics, Vel Tech, Chennai-600 062 for the second semester B.E/B. Tech degree course in Electrical and Electronics Engineering (EEE), Electronics and Communication Engineering (ECE), Electronics and Instrumentation Engineering (E&I), Instrumentation and Control Engineering (ICE), Bio Medical Engineering (BME), Medical Electronics (ME), and Computer and Communication Engineering (CC). This book deals with the various physical properties of materials that are of practical utility. It mainly focuses on the changes in physical properties of materials arising from the distribution of electrons in metals, semiconductors and insulators and also covers topics on the properties of magnetic and dielectric materials, optical properties of micro-electronic devices and nanoelectronic devices.

The book is written per the syllabus of first year engineering degree course for various universities. It covers basic topics of electrical and electronics engineering. It also includes worked out examples, University examination questions and answers, exercise, etc in every chapter. This book is suitable for course in basic electrical engineering under various Universities. Authors have tried to elucidate the topics in such a way that even a mediocre student can assimilate them. Many solved problems, sample question papers and exercise given in every section will provide a thorough understanding of the topics. Other features include attractive writing style, well structured equations and numerical examples, pictures of high clarity, etc. This book is one of the prescribed text books for the syllabus of Kerala University B. Sc Electronics course.

Artificial intelligence has been applied to many areas of science and technology, including the power and energy sector. Renewable energy in particular has experienced the tremendous positive impact of these developments. With the recent evolution of smart energy technologies, engineers and scientists working in this sector need an exhaustive source of current knowledge to effectively cater to the energy needs of citizens of developing countries. Computational Methodologies for Electrical and Electronics Engineers is a collection of innovative research that provides a complete insight and overview of the application of intelligent computational techniques in power and energy. Featuring research on a wide range of topics such as artificial neural networks, smart grids, and soft computing, this book is ideally designed for programmers, engineers, technicians, ecologists, entrepreneurs, researchers, academicians, and students.

The book has been written in a lucid and systematic manner with necessary mathematical derivations, illustrations, examples and practise exercises providing detailed description of the materials used in electrical and electronics engineering and their applications. Beginning with the atomic structure of the materials, the book deals with the behaviour of dielectrics and their properties under the influence of DC and AC fields. It covers the magnetic properties of materials including soft and hard magnetic materials and their applications. The text discusses fabrication techniques and the basic physics involved in the operation of the semiconductors, junction transistors and rectifiers. It includes detailed description of optical properties of the materials (optical materials), photovoltaic materials and the materials used in lasers and optical fibres. It also incorporates the latest information on the materials used for the direct energy conversion and fuel cell technologies. This book is primarily intended for undergraduate students of electrical engineering and electrical and electronics engineering. Key features

- Contains sufficient numbers of solved numerical examples.
- Includes a set of review questions and a list of references at the end of each chapter.
- Provides a set of numerical problems in some of the chapters, wherever required.
- Contains more than 150 diagrammatic illustrations for easy understanding of the concepts.

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