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AI is more than a model: Four steps to success in engineering and scientific AI applications  
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Electronic engineers work with various types of electrical systems, including navigational and communications ... can identify ethical applications. Some electronic engineering online bachelor ...

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Four Social Startups Awarded grant under Raftaar COVID Support Accelerator program launched by AIC-IIITH and EPAM  
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Self-healing soft electronics developed in the US  
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QUEST Global acquires Synapse Design to Enhance Expertise in Semiconductor and Connected Engineering  
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Every day, millions of people are unaware of the amazing processes that take place when using their phones, connecting to broadband internet, watching television, or even the most basic action of flipping on a light switch. Advances are being continually made in not only the transmission of this data but also in the new methods of receiving it. These advancements come from many different sources and from engineers who have engaged in research, design, development, and implementation of electronic equipment used in communications systems. This volume addresses a selection of important current advancements in the electronics and communications engineering fields, focusing on signal processing, chip design, and networking technology. The sections in the book cover: Microwave and antennas Communications systems Very large-scale integration Embedded systems Intelligent control and signal processing systems

Electronics and Communications for Scientists and Engineers, Second Edition, offers a valuable and unique overview on the basics of electronic technology and the internet. Class-tested over many years with students at Northwestern University, this useful text covers the essential electronics and communications topics for students and practitioners in engineering, physics, chemistry, and other applied sciences. It describes the electronic underpinnings of the World Wide Web and explains the basics of digital technology, including computing and communications, circuits, analog and digital electronics, as well as special topics such as operational amplifiers, data compression, ultra high definition TV, artificial intelligence, and quantum computers. Incorporates comprehensive updates and expanded material in all chapters where appropriate Includes new problems added throughout the text Features an updated section on RLC circuits Presents revised and new content in Chapters 7, 8, and 9 on digital systems, showing the many changes and rapid progress in these areas since 2000

The PC has longtime outgrown its function as a pure computer and has become an all-purpose machine. This book is targeted towards those people that want to control existing or self-built hardware from their computer. Using Visual Basic as Rapid Application Development tool we will take you on a journey to unlock the world beyond the connectors of the PC. After familiarizing yourself with Visual Basic, its development environment and the toolset it offers, items such as serial communications, printer ports, bitbanging, protocol emulation, ISA, USB and Ethernet interfacing and the remote control of test-equipment over the GPIB bus are covered in extent. Each topic is accompanied by clear, ready to run code, and where necessary, schematics are provided that will get your project up to speed in no time. This book will show you advanced things like: using tools like Debug to find hardware addresses, setting up remote communication using TCP/IP and UDP sockets and even writing your own internet servers. Or how about connecting your own block of hardware over USB or Ethernet and controlling it from Visual Basic. Other things like inter-program communication, DDE and the new graphics interface of Windows XP are covered as well. All examples are ready to compile using Visual Basic 5.0, 6.0, NET or 2005. Extensive coverage is given on the differences between what could be called Visual Basic Classic and Visual Basic NET / 2005.

Electronics and Telecommunication Engineering is a field that involves complex electronic apparatus, circuits and equipments that help in executing speedy and efficient telecommunication systems. These engineers design, fabricate, maintain, supervise and manufacture electronic equipments used in entertainment industry, computer industry, communication and defence. Ever increasing pace of development in electronics, audio and video communications systems and the automation in industry have made an electronic engineer a catalyst for the change of the modern society. A Handbook of Electronics and Communication Engineering covers the engineering syllabus of several examinations. The electronics Engineering section gives details on non-linear and active electrical components which are used to design circuits, chips and devices. It also focuses on implementation of principles, applications and algorithms. Communication Engineering is divided into two parts: Analog and Digital. Handbook of Electronics and Communication Engineering deals on an extensive assortment of topics, including transistors, diodes, microprocessors, signals and systems, network theory and microwave engineering. The book highlights important terms and definitions, along with illustrated formulae to make learning easy, with appropriate diagrams, whenever it is appropriate. An extensive coverage of key points for additional information is also given.

This volume presents the main results of 2011 International Conference on Electronic Engineering, Communication and Management (EECM2011) held December 24-25, 2011, Beijing China. The EECM2011 is an integrated conference providing a valuable opportunity for researchers, scholars and scientists to exchange their ideas face to face together. The main focus of the EECM 2011 and the present 2 volumes "Advances in Electronic Engineering, Communication and Management" is on Power Engineering, Electrical engineering applications, Electrical machines, as well as Communication and Information Systems Engineering. This volume presents the main results of 2011 International Conference on Electronic Engineering, Communication and Management (EECM2011) held December 24-25, 2011, Beijing China. The EECM2011 is an integrated conference providing a valuable opportunity for researchers, scholars and scientists to exchange their ideas face to face together. The main focus of the EECM 2011 and the present 2 volumes "Advances in Electronic Engineering, Communication and Management" is on Power Engineering, Electrical engineering applications, Electrical machines, as well as Communication and Information Systems Engineering.

With the presence of enhanced pedagogical features, the text will help readers in understanding fundamental concepts of electronics engineering.

This book covers diverse aspects of advanced computer and communication engineering, focusing specifically on industrial and manufacturing theory and applications of electronics, communications, computing and information technology. Experts in research, industry, and academia present the latest developments in technology, describe applications involving cutting-edge communication and computer systems, and explore likely future trends. In addition, a wealth of new algorithms that assist in solving computer and communication engineering problems are presented. The book is based on presentations given at ICCOC 2015, the 2nd International Conference on Communication and Computer Engineering. It will appeal to a wide range of professionals in the field, including telecommunication engineers, computer engineers and scientists, researchers, academics and students.

This volume contains the papers presented at the 2014 5th International Conference on Electronics and Information Engineering (ICEIE 2014). The objective of the conference was to provide a platform for researchers, engineers, academics and industrial professionals from all over the world to present their research results and development activities in Electronics and Information Engineering. It also provided opportunities for the delegates to exchange new ideas and application experiences, to establish business or research relations and to find global partners for future collaboration. Topics covered include: Electronics and Communications Engineering; Wireless Networking; Optical Communications; Multimedia Communications; Network; Software Technology in Communication Engineering; Microwave Engineering; Information and Communication Engineering; Artificial Intelligence; Bioinformatics; Software Engineering; Signal Processing; Coding; Audio/Speech Signal Processing; Image/Video Processing and Coding; Medical Imaging and Image Analysis; Applied Electronics Biomedical Electronics; Industrial Electronics and Automations; Robotics; Electronic Devices in Communications; Software Engineering in Electronics; Applications of Neural Networks; Industrial Automation and Control; Device Modelling & Simulation; VLSI Design & Test ; Device Packaging & Testing ; Material and New Fabrication Facilities Technologies; Micromachining, Microsensors and MEMS; Opto-electronics and Photonics Technology; Process Technology; Nano Technology; Information Technology; Communication and Vehicular Technology; Power System and Electronics; Control Systems; Biomedical Engineering; Biomedical Signal Processing and Analysis; Medical Data Storage and Compression Techniques; Biomedical Modelling; Computer and Information Science; Embedded Systems; Information Engineering and Applications; Electrical Engineering and Applications; Control Engineering and Applications; Communication Technology and Applications; Service Science, Engineering and Applications; Intelligent Methods in Energy and Transportation; Mechanical Engineering Design; Manufacturing Innovation and Project Management; Manufacturing Technology; Advances in Non-traditional Manufacturing; Virtual Manufacturing and Networked Manufacturing; Bio-manufacturing; Human-Machine Engineering; CAD, CDM, CAE Modelling and Simulation of Workflow in Design and Manufacturing Processes; Virtual Design and Virtual Manufacturing; Manufacturing Systems Integration; Computer-aided Design and Intelligent Manufacturing; Green Manufacturing Technology; Sustainable Materials.

This is the book, in which the subject matter is dealt from elementary to the advance level in a unique manner. Three outstanding features can be claimed for the book viz. (i) style: the student, while going through the pages would feel as if he is attending a class room. (ii) language: that an average student can follow and (iii) approach: it takes the student from "known to unknown" and "simple to complex." The book is reader friendly, thought provoking and stimulating. It helps in clearing cobwebs of the mind. The style is lucid and un-adulterated. Unnecessary mathematics has been avoided. Note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

This book is a collection of the best research papers presented at the 8th International Conference on Innovations in Electronics and Communication Engineering at Guru Nanak Institutions Hyderabad, India. Featuring contributions by researchers, technocrats and experts, the book covers various areas of communication engineering, like signal processing, VLSI design, embedded systems, wireless communications, and electronics and communications in general, as well as cutting-edge technologies. As such, it is a valuable reference resource for young researchers.

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