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ARM-based Microcontroller Projects Using mbed gives readers a good understanding of the basic architecture and programming of ARM-based microcontrollers using ARM ' s mbed software. The book presents the technology through a project-based approach with clearly structured sections that enable readers to use or modify them for their application. Sections include: Project title, Description of the project, Aim of the project, Block diagram of the project, Circuit diagram of the project, Construction of the project, Program listing, and a Suggestions for expansion. This book will be a valuable resource for professional engineers, students and researchers in computer engineering, computer science, automatic control engineering and mechatronics. Includes a wide variety of projects, such as digital/analog inputs and outputs (GPIO, ADC, DAC), serial communications (UART, 12C, SPI), WIFI, Bluetooth, DC and servo motors Based on the popular Nucleo-L476RG development board, but can be easily modified to any ARM compatible processor Shows how to develop robotic applications for a mobile robot Contains complete mbed program listings for all the projects in the book

Mixed-Signal Embedded Microcontrollers are commonly used in integrating analog components needed to control non-digital electronic systems. They are used in automatically controlled devices and products, such as automobile engine control systems, wireless remote controllers, office machines, home appliances, power tools, and toys. Microcontrollers make it economical to digitally control even more devices and processes by reducing the size and cost, compared to a design that uses a separate microprocessor, memory, and input/output devices. In many undergraduate and post-graduate courses, teaching of mixed-signal microcontrollers and their use for project work has become compulsory. Students face a lot of difficulties when they have to interface a microcontroller with the electronics they deal with. This book addresses some issues of interfacing the microcontrollers and describes some project implementations with the Silicon Lab C8051F020 mixed–signal microcontroller. The intended readers are college and university students specializing in electronics, computer systems engineering, electrical and electronics engineering; researchers involved with electronics based system, practitioners, technicians and in general anybody interested in microcontrollers based projects.

Advances in Systems, Computing Sciences and Software Engineering This book includes the proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS ' 05). The proceedings are a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of computer science, software engineering, computer engineering, systems sciences and engineering, information technology, parallel and distributed computing and web-based programming. SCSS ' 05 was part of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE ' 05) ([www.cisse2005.org](http://www.cisse2005.org)), the World ' s first Engineering/Computing and Systems Research E-Conference. CISSE ' 05 was the first high-caliber Research Conference in the world to be completely conducted online in real-time via the internet. CISSE ' 05 received 255 research paper submissions and the final program included 140 accepted papers, from more than 45 countries. The concept and format of CISSE ' 05 were very exciting and ground-breaking. The PowerPoint presentations, final paper manuscripts and time schedule for live presentations over the web had been available for 3 weeks prior to the start of the conference for all registrants, so they could choose the presentations they want to attend and think about questions that they might

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want to ask. The live audio presentations were also recorded and were part of the permanent CISSE archive, which also included all power point presentations and papers. SCSS ' 05 provided a virtual forum for presentation and discussion of the state-of-the-art research on Systems, Computing Sciences and Software Engineering.

Primary and Secondary education is a formative time for young students. Lessons learned before the rigors of higher education help to inform learners ' future successes, and the increasing prevalence of learning tools and technologies can both help and hinder students in their endeavors. K-12 Education: Concepts, Methodologies, Tools, and Applications investigates the latest advances in online and mobile learning, as well as pedagogies and ontologies influenced by current developments in information and communication technologies, enabling teachers, students, and administrators to make the most of their educational experience. This multivolume work presents all stakeholders in K-12 education with the tools necessary to facilitate the next generation of student-teacher interaction.

This book offers a set of learning principles to support the design of rich learning experiences in Science, Technology, Engineering and Mathematics (STEM) higher education, including detailed evaluations and discussions for a variety of science subjects. Further, it presents a professional learning framework that can be used to support the implementation of blended learning technologies to increase buy-in from academic staff, to support grass roots initiatives, to develop a sense of community, and to sustain change. The principles developed here will help readers to think about blended learning from a learner ' s perspective, put learning first, and develop activities that will help learners achieve better learning outcomes. In addition, the book addresses how to design rich, evidence-based, blended learning experiences that support learning. It demonstrates a range of learning principles in practice, with step-by-step instructions, and includes templates, supporting material, instructions and other resources to help teachers embed and adapt designs in their own subject. Readers will be equipped with an expanded toolkit of resources, designs, ideas and activities that can be directly applied in a variety of subject areas.

Protection of Wind Turbine Generators Using Microcontroller-Based Applications focuses on the application of microcontrollers in the protection of wind turbine generators. The book looks at the design and implementation of a versatile digital overcurrent (OC), OV/UV, OF/UF, and negative sequence relays, and addresses the dynamic behaviour of a wind-driven induction generator (IG) connected to a power system grid through a transmission line. The transient responses of protective devices associated with the IG are also studied. Modelling of the digital relay for wind turbine generator protection using MATLAB Simulink consider most of the aerodynamic and mechanical effects that can influence instantaneous output voltage, current, and power. Coverage also includes different AC fault types, a detailed theoretical analysis of fault and protection strategy in AC fault, and the different types of fault detection algorithms to maintain power system reliability. Presents wind turbine generator system concepts; Analyzes wind turbine generator protection; Offers lab validated MATLAB Simulink models using a small-scale setup.

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The European Society for Engineering and Medicine is representative of both the engineering and medicine communities, with membership drawn across Europe. The aim of the society is to provide a bridge between the two communities to facilitate engineering solutions to medical problems. The ESEM 2001 conference had a real-world focus and scientific papers were selected on the basis of their clinical application. Contributors at the conference were worldwide to reflect the global relevance and significance of the topics. The papers reflect the three main tracks of the conference: health information systems; bioengineering; and medical instrumentation and imaging. Within each of these areas there are a number of sub-themes on a diverse range of topics, such as: tissue engineering and artificial organs; computers in medicine; and biomedical processing and modelling. This volume is a record of the oral and poster presentations made at the conference, with an overview of the conference structure and a list of keynote speakers.

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