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6.002 is designed to serve as a first course in an undergraduate electrical engineering (EE), or electrical engineering and computer science (EECS) curriculum. At MIT, 6.002 is in the core of department subjects required for all undergraduates in EECS. The course introduces the fundamentals of the lumped circuit abstraction.

Circuits and Electronics | Electrical Engineering and ...

6.002 (Circuits and Electronics) introduces the fundamentals of the lumped circuit abstraction. Topics covered include: resistive elements and networks; independent and dependent sources; switches and MOS transistors; digital abstraction; amplifiers; energy storage elements; dynamics of first- and second-order networks; design in the time and frequency domains; and analog and digital circuits and applications.

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Circuits and Electronics 2: Amplification, Speed, and ...

The course materials for 6.002 were last updated in Spring 2007. However, the lecture notes, demos, and videos presented in this section are taken from the Fall 2000 version. Video for Lecture 24 is not available. Resources from this session may be found alongside the materials from Lecture 25.

Video Lectures | Circuits and Electronics | Electrical ...

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3) FET circuit solutions I Determine the drain current, I_D , and drain-source voltage, V_{DS} , for the following circuits and specifications Q2 R2

200 0 Vcc R3 50 In this design, the gate and drain are connected by a short circuit which gives $V_{GS} = V_{DS}$. The FET cannot be in the Triode region since V_{DS} is always greater than $(V_{GS} - V_{th})$. If the FET ...

FET circuit solutions I Determine the drain current I_D and ...

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6.002 CIRCUITS AND ELECTRONICS - MIT OpenCourseWare

6.002 Circuits and Electronics (Spring 2007, MIT OCW). This consists of 25 video lectures given by Professor Anant Agarwal, introducing the fundamentals of the lumped circuit abstraction. 6.002 is designed to serve as a first course in an undergraduate electrical engineering (EE), or electrical engineering and computer science (EECS) curriculum.

6.002 Circuits and Electronics (Spring 2007, MIT OCW ...

6.002 is designed to serve as a first course in an undergraduate electrical engineering (EE), or electrical engineering and computer science (EECS) curriculum. At MIT, 6.002 is in the core of department subjects required for all undergraduates in EECS. The course introduces the fundamentals of the lumped circuit abstraction.

MIT 6.002 Circuits and Electronics, Spring 2007 : MIT ...

Preface Welcome to DC Electrical Circuit Analysis, an open educational resource (OER).The goal of this text is to introduce the theory and practical application of analysis of DC electrical circuits. It is offered free of charge under a Creative Commons non-commercial, share-alike with attribution license.

Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

This proceedings volume highlights the latest achievements in research and development in educational robotics, which were presented at the 8th International Conference on Robotics in Education (RiE 2017) in Sofia, Bulgaria, from April 26 to 28, 2017. The content will appeal to both researchers and educators interested in methodologies for teaching robotics that confront learners with science, technology, engineering, arts and mathematics (STEAM) through the design, creation and programming of tangible artifacts, giving them the chance to create personally meaningful objects and address real-world societal needs. This also involves the introduction of technologies ranging from robotics controllers to virtual environments. In addition, the book presents evaluation results regarding the impact of robotics on students' interests and competence development. The approaches discussed cover the whole educational range, from elementary school to the university level, in both formal as well as informal settings.

eMaintenance: Essential Electronic Tools for Efficiency enables the reader to improve efficiency of operations, maintenance staff, infrastructure managers and system integrators, by accessing a real time computerized system from data to decision. In recent years, the exciting possibilities of eMaintenance have become increasingly recognized as a source of productivity improvement in industry. The seamless linking of systems and equipment to control centres for real time reconfiguring is improving efficiency, reliability, and sustainability in a variety of settings. The book provides an introduction to collecting and processing data from machinery, explains the methods of overcoming the challenges of data collection and processing, and presents tools for data driven condition monitoring and decision making. This is a groundbreaking handbook for those interested in the possibilities of running a plant as a smart asset. Provides an introduction to collecting and processing data from machinery Explains how to use sensor-based tools to increase efficiency of diagnosis, prognosis, and decision-making in maintenance Describes methods for overcoming the challenges of data collection and processing

Electronics explained in one volume, using both theoretical and practical applications. Mike Tooley provides all the information required to get to grips with the fundamentals of electronics, detailing the underpinning knowledge necessary to appreciate the operation of a wide range of electronic circuits, including amplifiers, logic circuits, power supplies and oscillators. The 5th edition includes an additional chapter showing how a wide range of useful electronic applications can be developed in conjunction with the increasingly popular Arduino microcontroller, as well as a new section on batteries for use in electronic equipment and some additional/updated student assignments. The book's content is matched to the latest pre-degree level courses (from Level 2 up to, and including, Foundation Degree and HND), making this an invaluable reference text for all study levels, and its broad coverage is combined with practical case studies based in real-world engineering contexts. In addition, each chapter includes a practical investigation designed to reinforce learning and provide a basis for further practical work. A companion website at <http://www.key2electronics.com> offers the reader a set of spreadsheet design tools that can be used to simplify circuit calculations, as well as circuit models and templates that will enable virtual simulation of circuits in the book. These are accompanied by online self-test multiple choice questions for each chapter with automatic marking, to enable students to continually monitor their own progress and understanding. A bank of online questions for lecturers to set as assignments is also available.

Lincoln Jones has trained thousands of electrical engineers. In this practical review, he combines more than 100 problems with numerous test-taking tips and a sample exam. Topics covered: * Circuit Analysis * Electromagnetic Fields * Machinery * Power * Distribution * Electronics * Control Systems * Digital Computers * Engineering * Economics 30% of this volume is text, and 70% are practice problems.

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