

Download Electrical Engineering Practical Manual

Electrical engineering is a professional engineering discipline that generally deals with the study and application of electricity, electronics, and electromagnetism. This field first became an identifiable occupation in the later half of the 19th century after commercialization of the electric telegraph, the telephone, and electric power distribution and use. Lighting Systems Design. Lighting systems convert electrical energy into light. Items to be included in the lighting design and analysis are: average illuminance, equivalent spherical illuminance, uniformity ratios, visual comfort probability, special purpose lighting, and the requirements of the local, state, and federal and ASHRAE 90.1 Energy Efficiency standards, and building Codes. Electrical and electronics engineering, the branch of engineering concerned with the practical applications of electricity in all its forms, including those of the field of electronics. Electronics engineering is that branch of electrical engineering concerned with the uses of the electromagnetic spectrum and with the application of such electronic devices as integrated circuits and transistors. The Electrical Engineering field is divided into the following 5 specialised fields, as well as Computer Systems: Control Systems Dealing with theoretical and practical concepts in the measurement, acquisition and control of various manufacturing and/or refining processes, this sub-discipline places emphasis on the use of industry related techniques and tools such as programmable logic ...