

Basic Electrical Engineering By Bakshi

The power consumed in a device is composed of two types – dynamic, sometimes called switching power, and static, sometimes called leakage power. In geometries smaller than 90nm, leakage power has become the dominant consumer of power whereas for larger geometries, switching is the larger contributor. Power reduction strategies can be used to minimize both

An electrical insulator is a material in which electric current does not flow freely. The atoms of the insulator have tightly bound electrons which cannot readily move. Other materials—semiconductors and conductors—conduct electric current more easily. The property that distinguishes an insulator is its resistivity; insulators have higher resistivity than ...

You can make analog circuits by soldering discrete components on a breadboard more easily than making a digital circuit on a breadboard. Although integrating that analog circuit onto a chip puts all those components onto one substrate just as with a digital integrated circuit, the analog ICs are notoriously hard to design well and require a different approach, much of which stems ...

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Wireless telegraphy or radiotelegraphy is transmission of telegraph signals by radio waves. Before about 1910, the term wireless telegraphy was also used for other experimental technologies for transmitting telegraph signals without wires. In radiotelegraphy, information is transmitted by pulses of radio waves of two different lengths called "dots" and "dashes", which ...

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