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an electronic circuit can usually be categorized as an analog circuit a digital circuit or a mixed signal circuit a combination of analog circuits and digital circuits the most widely used semiconductor device in electronic circuits is the mosfet metal oxide semiconductor field effect transistor 3 an electric circuit includes a device that gives energy to the charged particles constituting the current such as a battery or a generator devices that use current such as lamps electric motors or computers and the connecting wires or transmission lines electronic circuits and circuit boards the key to an electronic device is not just the components it contains but the way they are arranged in circuits the simplest possible circuit is a continuous loop connecting two components like two beads fastened on the same necklace circuit analysis or solving a circuit means figuring out voltages and currents in each element here s an overview of circuit analysis with some context for the various tools and methods we use to analyze circuits the tools element equations ohm s law etc schematics wires nodes branches loops and meshes unit 1 introduction to electrical engineering getting started unit 2 circuit analysis circuit elements resistor circuits dc circuit analysis natural and forced response ac circuit analysis unit 3 amplifiers operational amplifier unit 4 semiconductor devices diode unit 5 electrostatics overview authors christopher siu includes worked examples of functioning unit operations of chemical engineering throughout every chapter with an emphasis on

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