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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

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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

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