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Electronic Devices: Bond Model

Lab Manual: Experiments in Electronic Devices. Howard M. Berlin. Jeffrey L. Rankinen, Pennsylvania College of Technology

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Experiments in the ECE 311 labs use discrete devices and some parameters (for example, diode forward current) are often much larger than the values you would measure for similar devices on an integrated circuit.

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Circuit Connection. This electronic circuit consists of a crystal oscillator, two capacitors and a transistor forming a Colpitt

oscillator. A combination of diodes and capacitors are used for rectification and filtering respectively. Another NPN transistor is used as a switch to make the LED glow.

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