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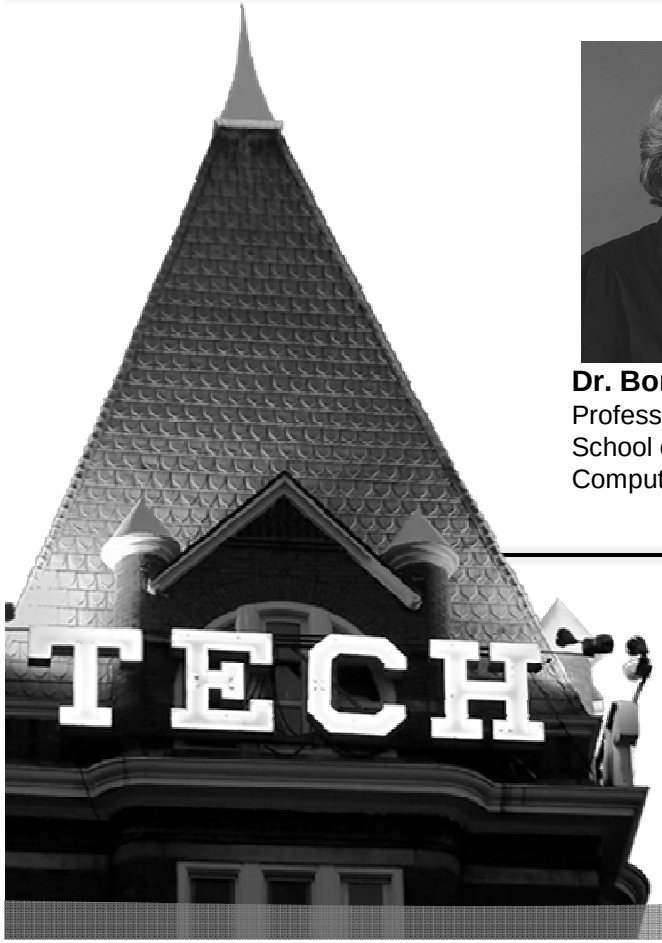

Linear Circuits

Dr. Bonnie Ferri
Professor and Associate Chair
School of Electrical and
Computer Engineering

An introduction to linear electric circuit elements and a study of circuits containing such devices.

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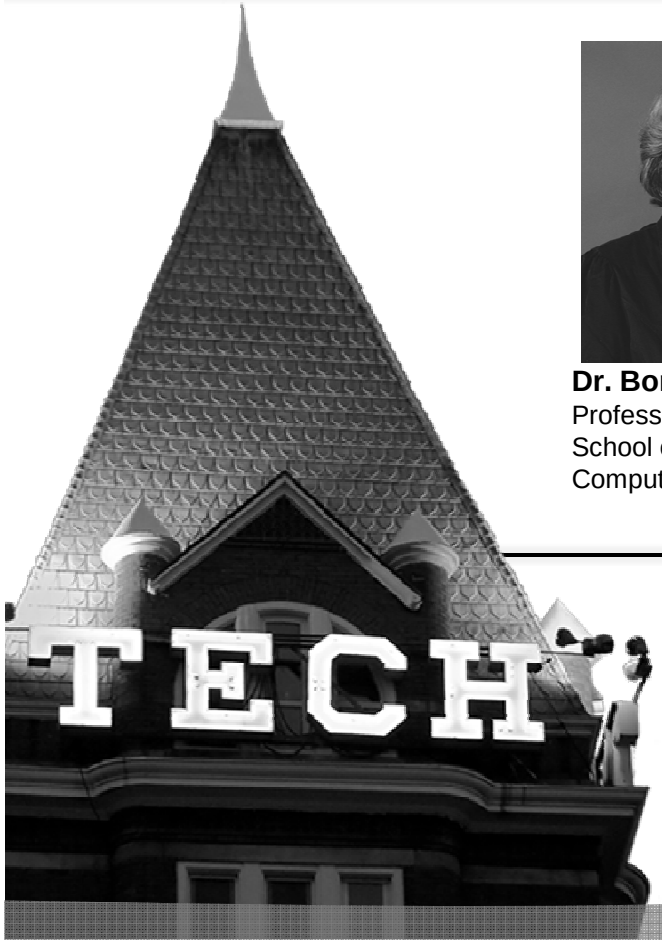

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Lab Demo: Introduction to Electrical Components

Demonstrate basic instruments and components.

Module 2: Resistive Circuits

- Resistance
- Kirchhoff's Laws
- Resistors
- Superposition
- Systematic Solution Methods
- Maximum Power Transfer
- Application: Sensors

Lab Demo: Introduction to Electrical Components

Summary

- Physical resistors
  - Color codes
  - Tolerances
- Digital Multimeter (DMM)
  - Measure voltage, current, resistance
- Protoboard (breadboard)
  - Ease of building circuits

Next Lesson

- Resistor connections in real circuits

Credits

Thanks to Marion Crowder (School of Electrical and Computer Engineering at Georgia Tech) for video-taping the experiment

DMM used in experiment is manufactured by Fluke Corporation