

Electrical Engineering: Principles and Applications

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✓ Verified Book of Electrical Engineering: Principles and Applications

Summary:

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The author's guiding philosophy in writing this book has three elements: to present basic concepts to readers in a general setting, to show how the principles of electrical engineering apply to specific problems in their own fields, and to remove frustration from the learning process. Emphasizing the basic concepts of the field, this book covers circuit analysis, digital systems, electronics, and electromechanics. This book develops theoretical and experimental skills and experiences in the following areas: basic circuit analysis and measurement, first- and second-order transients, steady-state ac circuits, resonance and frequency response, digital logic circuits, microcontrollers (68HC11), computer-based instrumentation, diode circuits, electronic amplifiers, field-effect and bipolar junction transistors, operational amplifiers, ac and dc machines, and more. For engineers or any other professionals who need a solid foundation in the basics of circuits, digital systems, analog electronics, and electromechanics.

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