



# Electrical and Electronics Practice Problems for the Electrical and Computer PE Exam

By John A. Camara PE

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## Electrical and Electronics Practice Problems for the Electrical and Computer PE Exam By John A. Camara PE

### Build Your Confidence and Improve Your Problem-Solving Skills

The best way to prepare for your exam is to solve problems—the more problems the better. *Electrical and Electronics Practice Problems for the Electrical and Computer PE Exam* provides you with the problem-solving practice and confidence you need to succeed on your exam.

To provide well-rounded, streamlined exam preparation, this book features 528 problems in varying formats and levels of difficulty and coordinates with the chapters in the *Electrical and Electronics Reference Manual*. The majority of the problems are multiple-choice and mirror those on the actual exam. You will find a higher level of complexity among the 133 scenario-based problems, allowing you to review each subject in context. Short answer problems round out the book, providing conceptual and qualitative subject coverage.

After solving each problem, evaluate your problem-solving accuracy and efficiency by reviewing the provided step-by-step solution.

### Electrical and Electronics Exam Topics Covered

- **General Electrical Engineering:** Circuit Analysis; Measurement and Instrumentation; Safety and Design Limits; Signal Processing
  - **Digital Systems:** Digital Logic; Digital Components
  - **Electric and Magnetic Field Theory and Applications:** Electromagnetic Fields; Transmission Lines and Guided Waves; Antennas
  - **Electronics:** Electronic Circuit Theory; Electronic Components and Circuits
  - **Control System Fundamentals:** Block Diagrams; Characteristic Equations; Frequency Response; Time Response; Control System Design; Stability
  - **Communications:** Modulation; Noise and Interference; Telecommunications
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**Electrical and Electronics Practice Problems for the Electrical and Computer PE Exam By John A. Camara PE Bibliography**

- Rank: #1033543 in Books
- Published on: 2010-08-12
- Original language: English
- Number of items: 1
- Dimensions: 11.00" h x .60" w x 8.50" l, 1.35 pounds
- Binding: Paperback
- 250 pages

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