



# Grounding and Shielding: Circuits and Interference

By Ralph Morrison

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The fifth edition of Grounding and Shielding has been revised throughout. Material has been added on transmission lines, radiation and printed circuit design, all of which are of great current interest because of the smaller dimensions of electronic devices.

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### Editorial Review

#### Review

"It is well worth having, even just to learn about the basic fundamentals presented." (*IEEE Electrical Insulation*, April 2008)

#### From the Back Cover

#### **The updated, step-by-step guide to solving noise and interference problems in the digital age**

Digital logic keeps getting faster, and designers are faced with a host of ever-changing challenges when addressing noise and interference in data processing, high-speed communication, mass data storage, and in many other high-frequency applications.

*Grounding and Shielding: Circuits and Interference*, Fifth Edition is a highly effective tool that connects the fundamentals of electromagnetic theory to the problems of interference in all types of electronic design. The book covers such diverse topics as power distribution in facilities, mixing of analog and digital circuitry, circuit board layout at high clock rates, and meeting radiation and susceptibility standards. It features:

- New material on transmission lines, radiation, and printed circuit design
- Effective techniques for handling noise problems in analog and digital circuits
- Step-by-step instructions for building noise-free instrumentation systems
- Strategies for reducing or eliminating noise in large systems
- The use of multishielded transformers in clean-power installations
- How noise is coupled in and out of analog and digital circuits
- Simplified, practical explanations of the physics of fields
- Dozens of illustrations and a clear, readable text

*Grounding and Shielding: Circuits and Interference*, Fifth Edition is a state-of-the-art problem-solving guide for electronic design engineers and technicians. It is also an extremely useful book for short courses on electronic interference.

#### About the Author

**RALPH MORRISON** is a consultant and lecturer in the area of interference control and electronics. He has thirty years of design and consulting experience, was president of Instrum for more than a decade, and has authored *Noise and Other Interfering Signals*, *Grounding and Shielding in Facilities*, and *Solving Interference Problems in Electronics*, all published by Wiley.

### Users Review

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