



High Speed Digital Design: A Handbook of Black Magic

By Howard Johnson, Martin Graham

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Focused on the field of knowledge lying between digital and analog circuit theory, this new text will help engineers working with digital systems shorten their product development cycles and help fix their latest design problems. The scope of the material covered includes signal reflection, crosstalk, and noise problems which occur in high speed digital machines (above 10 megahertz). This volume will be of practical use to digital logic designers, staff and senior communications scientists, and all those interested in digital design.

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Editorial Review

From the Publisher

Focused on the field of knowledge lying between digital and analog circuit theory, this new text will help engineers working with digital systems shorten their latest design problems. The scope of the material covered includes signal reflection, crosstalk, and noise problems which occur in high speed digital machines (above 10 megahertz). This volume will be of practical use to digital logic designers, staff and senior communications scientist, and all those interested in digital design.

From the Back Cover

Focusing on a combination of digital and analog circuit theory, this comprehensive volume will help engineers who work with digital systems, shorten their product development cycles, and fix their latest high-speed design problems.

- Covers signal reflection, crosstalk, and noise problems that occur in high-speed digital machines (above 10 megahertz).
- Includes checklists that ask the questions an experienced designer would about a new system.
- Offers useful formulas for inductance, capacitance, resistance, rise time, and Q.
- Explains the trade-offs between signal cross talk, mechanical fabrication of tolerances, and trace routing density.
- Presents a methodology for determining how many layers will be required to route a printed circuit board.

About the Author

Howard W. Johnson is president of Olympic Technology Group, Inc., of Redmond, Washington, a digital electronic design and consulting organization. Before founding the firm, he was Manager of Technology and Advanced Development at Ultra Network Technologies, a manufacturer of gigabit-per-second local area networks for supercomputers. Since obtaining his Ph.D. in 1982 from Rice University, he has specialized in the design of high-speed digital communications and digital signal processing systems.

Martin Graham has been a Professor of Electrical Engineering and Computer Sciences at the University of California at Berkeley since 1966, where he teaches the design of reliable and manufacturable electronic systems.

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