



The Foundations of Signal Integrity

Paul G. Huray

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The first book to focus on the electromagnetic basis of signal integrity

The Foundations of Signal Integrity is the first of its kind—a reference that examines the physical foundation of system integrity based on electromagnetic theory derived from *Maxwell's Equations*. Drawing upon the cutting-edge research of Professor Paul Huray's team of industrial engineers and graduate students, it develops the physical theory of wave propagation using methods of solid state and high-energy physics, mathematics, chemistry, and electrical engineering before addressing its application to modern high-speed systems. Coverage includes:

- All the necessary electromagnetic theory needed for a complete understanding of signal integrity
- Techniques for obtaining analytic solutions to Maxwell's Equations for ideal materials and boundary conditions
- Plane electromagnetic waves
- Plane waves in compound media
- Transmission lines and waveguides
- Ideal models vs. real-world systems
- Complex permittivity of propagating media
- Surface roughness
- Advanced signal integrity
- Signal integrity simulations
- Problem sets for each chapter

With its thorough coverage of this relatively new discipline, the book serves as an ideal textbook for senior undergraduate and junior graduate students, as well as a resource for practicing engineers in this burgeoning field. At the end of each section, it typically stimulates the reader with open-ended questions that might lead to future theses or dissertation research.

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