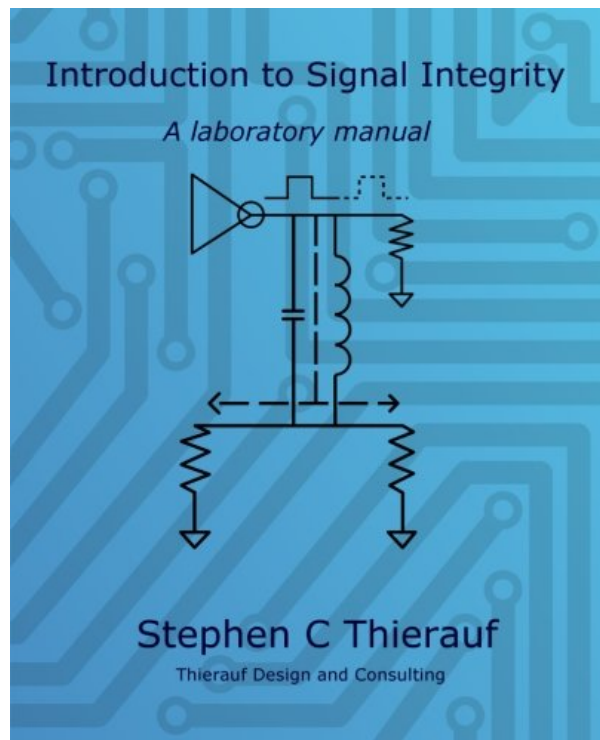


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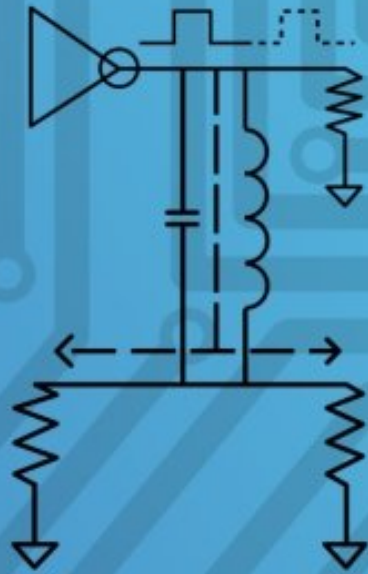


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**Stephen C Thierauf**

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## About the Author

Stephen C. Thierauf has over 35 years of industrial experience designing and analyzing high-performance electronic hardware. He's in private practice (Thierauf Design and Consulting) and has written two other signal integrity text books.

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Introduction to Signal Integrity: A Laboratory Manual provides a way for students, engineers and technicians to learn the basics of signal integrity by performing lab measurements on low cost hardware without using expensive test equipment. Each chapter of experiments is preceded by a theoretical description of the important topics that the experiments explore. Ideal for the use in the classroom or for home study, this manual provides step-by-step instructions for each experiment and is loaded with schematic drawings, oscilloscope waveforms and photographs. Explanations and suggestions for “supplemental exercises” are provided for each experiment, and where necessary “critical observations” are highlighted to point out especially noteworthy findings. Table of Contents Preface Chapter 1 Signal Integrity Background Material Chapter 2 Transmission Line Fundamentals Chapter 3 Laboratory Exercises: Impedance and Delay Chapter 4 Overview of Reflections and Terminations Chapter 5 Laboratory Exercises: Reflections and Terminations Chapter 6 Fundamentals of Crosstalk Chapter 7 Laboratory Exercises: Measuring Crosstalk Appendix A. Test Setup Build Notes Appendix B. Selecting and Preparing the Cable Appendix C. Oscilloscope Probing Techniques Bibliography By performing these experiments the reader sees firsthand how reflections and crosstalk are created, and experiments with various termination and clamping techniques allows the student to discover how to reduce or eliminate problems. Appendix C discusses the effects oscilloscope bandwidth has on measurements, and describes the effects ground lead inductance has on measured results (and provides solutions on how to eliminate these types of errors).

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The ESSENTIAL Signal Integrity Summary

By Jeffrey L. Cooper

This is the best thing I've seen for learning the rock solid underpinnings of signal integrity. The author has developed a novel lab setup that is accessible and repeatable for a very wide range of students, engineers, and hobbyists; all one needs is a 74HCT240 IC, 5V, 5 meters of twisted-pair cable (e.g. as part of some CAT5e cable), and an oscilloscope. I have performed these (and many similar) experiments using an

oscilloscope with 70MHz bandwidth and another oscilloscope with 50MHz bandwidth and have been quite satisfied with the results and have used them in the community college engineering education environment. Beyond the excellent exposition of signal integrity basics all with very down-to-earth explanations, Mr. Thierauf salts the entire manual with the rules-of-thumb that are so important in the signal integrity related aspects of electrical engineering be it in board design, time-domain-reflectometry (TDR), signal transmission over cable, crosstalk between nearby transmission lines, etc. Along with all the great rules-of-thumb is the constant and consistent introduction and use of signal integrity vocabulary. The engineer, student, or hobbyist who fully uses this book will gain valuable skill in the application of signal integrity practice AND will be able to talk-the-talk of signal integrity promoting better design practice, better design reviews, and wider and more productive communication both within and outside the development team.

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