

New Book Describes Techniques to Eliminate Signal Integrity Problems

'A Signal Integrity Engineer's Companion' illuminates key techniques and concepts for simulation, test and measurement

PRNewswire

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Tektronix, Inc., a leading worldwide provider of test, measurement and monitoring instrumentation, announced publication of a new book on Signal Integrity co-authored by Dave Ireland of Tektronix. "A Signal Integrity Engineer's Companion: Real-time test and measurement and design simulation," is published by Prentice Hall publishers and is available now from online book resellers.

A Signal Integrity Engineer's Companion covers the life cycle from feasibility to verification, and from simulation to test, offering a practical guide to modern Signal Integrity test and measurement for high-speed digital designs. It includes detailed, start-to-finish case studies that guide engineers through commonly encountered design challenges. The book covers embedded system design from specification and simulation onward, illuminating key techniques and concepts with easy-to-understand illustrations. Suited for all electrical engineers, signal integrity engineers and chip designers, the authors show how to use real-time test and measurement instruments and techniques to address increasingly difficult interoperability and compliance requirements.

"Signal Integrity engineering is a relatively new branch of electronic engineering and for the most part relates to the analog factors that affect both the performance and the reliability of modern high-speed digital systems," said co-author Dave Ireland. "In particular, when applied to the high-speed serial buses encountered in modern communication and computer systems, issues of signal accuracy can play a key part in the overall reliability of designs and their compliance with evolving bus standards."

"High speed signals present many challenges for design engineers," said Martyn Etherington, vice president, Worldwide Sales, Service and Marketing, Tektronix. "This new book provides engineers a comprehensive, authoritative, and practical guide to modern Signal Integrity test and measurement for high-speed digital designs. It is destined to become a standard reference for students and engineers worldwide."

In addition to Ireland, co-authors for the book are Dr. Geoff Lawday, Tektronix Professor in Measurement at Buckinghamshire New University and Greg Edlund, Senior Engineer with IBM Global Engineering Solutions Division. The foreword is provided by Chris Edwards, Electronics Editor, IET Engineering and Technology journal.

A Signal Integrity Engineer's Companion can be ordered online through Amazon.com, Borders.com and other leading online booksellers.

About Tektronix

Tektronix is a leading supplier of test, measurement, and monitoring products, solutions and services for the communications, computer, and semiconductor industries -- as well as military/aerospace, consumer electronics, education and a broad range of other industries worldwide. With 60 years of experience, Tektronix enables its customers to design, build, deploy, and manage next-generation global communications networks, computing and advanced technologies. Headquartered in Beaverton, Oregon, Tektronix has operations in 19 countries worldwide. Tektronix' Web address is <http://www.tektronix.com/>.

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