

1. Record Nr.	UNINA9910820108203321
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Titolo	Understanding signal integrity // Stephen C. Thierauf
Pubbl/distr/stampa	Boston : , : Artech House, , ©2011 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2010]
ISBN	1-59693-982-6
Descrizione fisica	1 online resource (256 p.)
Disciplina	621.3815 621.382/24
Soggetti	Signal integrity (Electronics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Understanding Signal Integrity; Contents; Preface; Chapter 1: Introduction to Signal Integrity; Chapter 2: The Signal Integrity Process; Chapter 3: Signal Integrity CAD and Models; Chapter 4: Printed Test and Evaluation Boards; Chapter 5: Printed Circuit Board Construction; Chapter 6: Transmission Line Fundamentals; Chapter 7: Understanding Microstrip and Stripline Transmission Lines; Chapter 8: Signal Loss and the Effects of Circuit Board Physical Factors; Chapter 9: Understanding Trace-to-Trace Coupling; Chapter 10: Understanding Crosstalk; Chapter 11: Understanding Signal Reflections Chapter 12: Termination Strategies Chapter 13: Differential Signaling; Chapter 14: Trace and Via Artwork Considerations for Signal Integrity; Chapter 15: Identifying Common Signal Integrity Problems; Chapter 16: Solving Common Signal Integrity Problems; Chapter 17: Calculating Trace and Plane Electrical Values; About the Author; Index
Sommario/riassunto	This unique book provides you with practical guidance on understanding and interpreting signal integrity (SI) performance to help you with your challenging circuit board design projects. You find high-level discussions of important SI concepts presented in a clear and easily accessible format, including question and answer sections and bulleted lists. This valuable resource features rules of thumb and simple equations to help you make estimates of critical signal integrity parameters without using circuit simulators or CAD (computer-aided

design). The book is supported with over 120 illustrations, nearly 100 equations, and detailed reference lists at the end of each chapter.
