



Digital Transmission Lines: Computer Modelling and Analysis with CD-ROM

Kenneth D. Granzow

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Digital Transmission Lines: Computer Modeling and Analysis adopts a unique approach which offers the reader an intuitive understanding of the causes and nature of crosstalk as well as the conceptual and mathematical tools to control it. It begins with an introduction to the transmission line equations, progresses to the solution for the signals on networks of multi-wire lines in layered dielectric media, and further develops a method to include the skin effect in the propagation algorithm. All of the algorithms developed are illustrated in computer codes (in the C programming language). The codes are discussed in the book and included on a compact disk (CD-ROM).

The text's most significant feature is its method of simulating crosstalk between closely spaced traces on a circuit board and providing design tools for its control. The author explains methods that he has successfully used to simulate multi-wire transmission line signal propagation; provides explanations that enhance students' understanding of propagation and crosstalk; and uses mathematical algorithms for their numerical evaluation. He also describes design methods for reducing crosstalk between traces on a multi-layered circuit board.

Numerous exercises, hints, problems, and computer code illustrate each of the algorithms developed and encourage the reader to become actively involved. An accompanying CD-ROM contains all source code from the text as well as executable demo versions of commercial CAD programs that illustrate use of the principles in the book. Ideal for graduate courses in electrical engineering and computer science, *Digital Transmission Lines: Computer Modeling and Analysis* will also serve as an indispensable reference for software engineers, electronic design engineers, and electromagnetic research professionals.

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