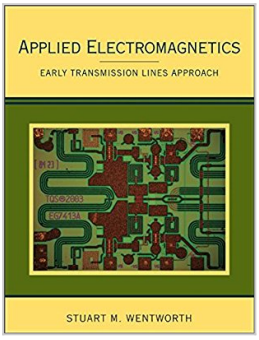

Applied Electromagnetics : Early Transmission Lines Approach

By Stuart M. Wentworth

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ABOUT THE PHOTO

Passive RFID systems, consisting of readers and tags, are expected to replace bar codes as the primary means of identification, inventory and billing of everyday items. The tags typically consist of an RFID chip placed on a flexible film containing a planar antenna. The antenna captures radiation from the reader's signal to power the tag electronics, which then responds to the reader's query. The PENI Tag (Product Emitting Numbering Identification Tag) shown, developed by the University of Pittsburgh in a team led by Professor Marlin H. Mickle, integrates the antenna with the rest of the tag electronics. RFID systems involve many electomagnetics concepts, including antennas, radiation, transmission lines, and microwave circuit components. (Photo courtesy of Marlin H. Mickle.)

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Editorial Review

From the Back Cover

ELECTROMAGNETICS FOR A WIRELESS WORLD

The revolution in wireless communications calls for a new focus in the electrical engineering curriculum. Stuart M. Wentworth pioneers this new approach with his new *Applied Electromagnetics: Early Transmission Lines Approach.* Incorporating the popular MATLAB program throughout, this book starts you off with a rock-solid foundation on such basics as static electric and magnetic fields, dynamic fields, and plane waves. It then prepares you for the new wireless world with a concerted focus on practical applications for wireless systems, transmission lines, waveguides (including optical fiber), antennas, and microwave systems.

Numerous worked out examples, drill problems, and end-of-chapter problems will clarify your understanding of electromagnetics, and the many MATLAB examples and problems will ensure your mastery of the information. Intelligently designed and feature-packed, Wentworth's *Applied Electromagnetics* offers a rare marriage of detailed theoretical grounding and hands-on experience in harmony with today's professional practice.

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About the Author

ABOUT THE AUTHOR

Stuart M. Wentworth received his B.S degree in Chemical Engineering from Auburn University, Alabama, in 1982 and his M.S. (1987) and Ph.D. (1990) degrees in Electrical Engineering from the University of Texas at Austin. He has been a member of the Electrical & Computer Engineering faculty at Auburn University, Alabama since 1990. Dr. Wentworth's research has focused on the high frequency characterization of materials used for electronics packaging. He is the author of *Fundamentals of Electromagnetics with Engineering Applications* (Wiley). Dr. Wentworth has received numerous teaching awards at Auburn University, including the Birdsong Merit Teaching Award in 1999. He is a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE).

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