

Electronic Communications: Principles and Systems

William D. Stanley & John M. Jeffords

The book develops a solid understanding of the general principles and systems of communications systems. Topics include traditional analog communication techniques such as AM and FM, modern digital systems, radio, satellite, networking, wireless communications systems, and many other areas. Practical applications are stressed with an emphasis on signal processing at a systems level, in order to provide a better background for modern digital technology, wireless and networking and multi-media systems.

Features

- Thorough and well-illustrated explanations help foster a deeper understanding of the "why" behind the design, operation, and analysis of communication systems
- Numerous example problems are worked out in detail, using software (MATLAB[®] for Engineers, Excel, Mathematica, and SPICE) to provide readers with powerful simulation tools at the circuit, mathematical, and system level
- Great coverage is devoted towards the practical interpretation and application of the book rather than the formal mathematical derivation. Derivations of essential communication laws
- Multiple appendices provide additional, general information for readers who wish to pursue theoretical concepts in more detail
- An understanding of algebra and trigonometry is required. Prior knowledge in calculus is not required, but would enhance understanding of advanced topics such as Fourier transforms
- Back of book CD includes Lab Manual, Mathematica, SPICE, and SuperSim[™] files

Meet the Authors

William D. Stanley is an Associate Professor Emeritus at the University of Northern Iowa, and was the recipient of the State Council of Higher Education in Indiana Outstanding Faculty Award. He received his Bachelor of Science in Electrical Engineering degree at the University of North Carolina. Mr. Stanley also received both the Master of Science in Electrical Engineering and a Ph.D. in Electrical Engineering at South Carolina State University. Dr. Stanley is a registered professional engineer and a member of IEEE and IEEE.

John M. Jeffords earned his BS in Electrical Engineering from Iowa State University, then spent 10 years as a circuit designer and circuit maintenance officer while attending law school at the College of William and Mary. He earned teaching assistant engineering technology degrees at the University of Northern Iowa, and continued to do so after earning his law and completing his law practice. Other awards given to Dr. Jeffords include national teaching excellence and taught electrical engineering technology and information technology courses for 10 years.

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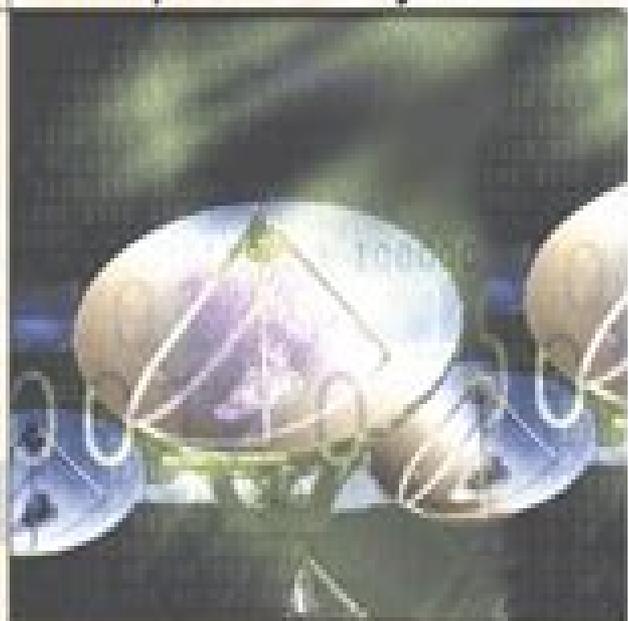
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Electronic Communications Principles And Systems

Louis Frenzel



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ROM Prerequisites are a command of algebra and an understanding of fundamental electrical concepts

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