

Thomas Starr | John M. Cioffi | Peter J. Silverman

Understanding Digital Subscriber Line Technology



- DSL technologies explained by the experts who created the standards
- The most complete coverage anywhere: ISDN, HDSL, ADSL, and VDSL

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The basic infrastructure for the global broadband network of the future is already in place in most homes and offices. Ordinary telephone lines can provide low-cost, high-volume access to the exploding world of telecommunications services that users increasingly rely on.

Now, leading experts in the field have come together to share their insights in a single volume, explaining the past, present, and future of all the DSL technologies. *Understanding Digital Subscriber Line Technology*:

- Covers the entire DSL family, from ISDN at 144 kb/s to VDSL at 52 Mb/s
- Details DSL at all layers of protocol, with special emphasis on the physical layer
- Discusses applications from both provider and end-user points of view
- Gives an insider's view of the telecommunications standards process

Key standards are explained, including transmission line characteristics, data rates, modulation and coding methods, operations procedures, transconvergence layers, protocols, and network architectures.

With its inside track and extensive level of detail, *Understanding Digital Subscriber Line Technology* will be indispensable to telecom and datacom engineers at every level. It also offers a comprehensible explanation of issues in this growing field to managers, marketing experts, and consumers of DSL technology.

About the CD-ROM

The enclosed CD-ROM includes drafts of the XDSL standards, as well as the top papers presented at the T1E1.4 Standards Committee meetings between 1990 and 1998.

About the Authors

THOMAS STARR develops and manages new local access technologies for Ameritech. He also chairs ANSI's T1E1.4 working group, which develops XDSL standards for the United States. Mr. Starr also serves as a member of the Board of Directors of the ADSL Forum.

JOHN M. CIOFFI is the founder of Amati Inc., the company that wrote most of the ADSL standard. He is an associate professor of electrical engineering at Stanford University. He has been the editor for VDSL requirements development in the ANSI T1E1.4 group and holds the original patent on VDSL and many other patents in ADSL and VDSL.

PETER J. SILVERMAN is a Senior Architect at 3COM, responsible for planning the implementation, provisioning, and management of DSL services in a multi-vendor, multi-provider environment and a member of the T1E1.4 working group. Mr. Silverman is a contributor to the International Telecommunications Union development of XDSL Recommendations.

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