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	2. Types of DSLs.				
	DSL Design Margin. DSL Precursors. Basic Rate ISDN. HDSL. ADSL. VDSL.				

# 3. Twisted-Pair Transmission.

Twisted-Wire-Pair Origins. Telephone Network and Loop Plant Characteristics. Line Powering. Sealing Current. Transmission Line Characterization. Noises. Spectral Compatibility. More Two-Port Networks. Three-Port Networks for DSLs. References.

### 4. Comparison with Other Media.

Fiber-to-the-Home. Coax and Hybrid Fiber Coax. Wireless Alternatives. Satellite Services. References.

# 5. Transmission Duplexing Methods.

Four-Wire Duplexing. Echo Cancellation. Time-Division Duplexing. Frequency-Division Multiplexing. References.

#### 6. Basic Digital Transmission Methods.

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Basic Modulation and Demodulation. Baseband Codes. Passband Codes. References.

### 7. Loop Impairments, Solutions, and DMT.

Intersymbol Interference. Multichannel Line Codes. Trellis Coding. Error Control. References.

#### 8. Initialization, Timing and Performance.

Initialization Methods. Adaptation of Receiver and Transmitter. Measurement of Performance. Timing Recovery Methods. References.

#### 9. Operations, Administration Maintenance, and Provisioning.

OAM&P Features. Loop Qualification.

### 10. DSL in the Context of the ISO Reference Model.

The ISO Model. Theory and Reality. The Internet Protocol Suite. ATM in the Seven-Layer Model.

### 11. ADSL: The Bit Pump.

ADSL System Reference Model. ATU-C Reference Model. ATU-R Reference Model. Specific Configurations to Support ATM. Framing. Operations and Maintenance. Initialization. Reference.

#### 12. ATM Transmission Convergence on ADSL.

Functions of ATM Transmission Convergence. Transmission Convergence in an ADSL Environment. Reference.

#### 13. Frame-Based Protocols over ADSL.

PPP over a Frame-Based ADSL. FUNI over ADSL. Reference.

# 14. ADSL in the Context of End-to-End Systems.

An Overview of a Generic DSL Architecture. Potential ADSL Services and the Service Requirements. Specific Architectures for Deploying ADSL in Different Business Models. Several ADSL Architectures. References.

## 15. Network Architecture and Regulation.

Private Line. Circuit Switched. Packet Switched. ATM. Remote Terminal. Competitive Data Access Alternatives. Regulation.

# 16. Standards.

ITU. Committee T1. ETSI. ADSL Forum. ATM Forum. DAVIC. IETF. EIA/TIA. IEEE. The Value of Standards and Participation in Their Development. Standards Process.

#### Appendix A: Glossary.

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# Appendix B: Selected Standards and Specifications.

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