



This issue contains ten articles surveying the field of data communications.

1. Bernard Strassburg: Dilemmas in the Nation's Telecommunications Policy
This essay is based on the authors experience with the Federal Communications Commission. He indicates some of the problems the government has in ensuring equitable policy enforcement in the regulatory environment. The discussion includes various FCC decisions such as the Interconnection and Specialized Carrier Decisions.
2. Charles F. Pyne: Network Upgrading Broadens Trading Information Services
Mr. Pyne reports on the expanding capability of AutEx Inc. AutEx provides information to buyers and sellers of commodities via a data communications network.
3. David J. McKee: How Transaction Cost Declines as Data Networks Get Larger
Mr. McKee of General Electric Information Services gives the results of his research into prices and tariffs of unit-transaction costs. He indicates a decline in costs based on fuller utilization of lines and equipment as the network handles more traffic.
4. Dixon R. Doll: Computer Networking - The Giant Step in Data Communications
Starting from the observation that connecting data-base computers via high-speed links has been proven to be technically feasible, Mr. Doll suggests that the future use of such networks depends on parameters such as what the networks can do, the cost of the networks and the ownership of the networks.
5. Edward J. Henley: Hit Analysis Leads to Reduced Data Errors from a Microwave Link
Mr. Henley of MCI Communications Corp. reports a strategy of analyzing error producing hits. The strategy eventually locates the sources of errors thus allowing the user to improve the performance of his data communications system.
6. Ronald I. Price: Estimating Buffer Size and Queuing Delay in a Remote Concentrator
In this article, the author presents some simple models which aid the system designer in understanding equipment interactions in a multiterminal network.

7. John F. Chyzik: Fundamentals of Software for Communications Processors
Mr. Chyzik suggests a software basis of 10 modules which will allow a single minicomputer to service many different areas.
8. Donald W. Parker: Network - management Centers Help Keep the System Going
This article suggests that proper management design can result in simpler diagnosis of faults and aids in the rapid restoration of service for a network center.
9. J. Ray Kersey: Taking a Fresh Look at Data Link Controls
Views are presented on aspects of line discipline. The suggestion is that if the potential of computer-based data communications is to be fully exploited, then line protocol must be simpler and more efficient.
10. Kuei-Seng Wang and Stephan A. Dalyai: Don't Overlook Electrical Compatibility When Mating Equipment
The authors give consideration to the electrical parameters that a potential user must know about in order to ensure proper interfaces of data communications equipment.

Subscription information may be obtained by inquiry to

Mr. G. F. Werner, Circulation Manager
Data Communications Systems
McGraw-Hill Building
1221 Avenue of the Americas
New York, N. Y. 10020

Regular subscriptions are \$8.00 per year.