

3. IEEE Spectrum, Vol. 11 No. 2, February 1974

a. C. Gordon Bell, "More power by Networking"

The author develops a general categorization of types of networks and the parameters associated with each type. The parameters are related to network design considerations. The author then looks at existing networks as examples of his parameterization. The article is concluded with a short bibliography.

b. L.G. Roberts, "Data by the packet"

The author presents arguments as to the effectiveness of the packet strategy. He uses the ARPA net as an example of this strategy. The ARPA net is presented mainly in terms of cost effectiveness. The article closes with some speculation of future trends in data communications, especially using satellites.

4. IEEE Computer Vol. 7, No. 2, February 1974

a. A.F. Hartung, "Computer Networks and Communications"

This is a short essay introduction to the following three articles.

b. D.R. Doll, "Telecommunications Turbulence and the Computer Network Evolution"

This article is a survey of the data communications area. The author starts with fundamental definitions of computer networks. He then discusses 14 different government and private networks within the framework of the various parameters of network organization. Dr. Doll discusses the various networks in terms of usage, facilities, technology, administrative aspects and economic considerations. The article is closed with a discussion on recent developments in telecommunications. An extensive bibliography is included.

c. S. Winkler and L. Danner, "Data Security in the Computer Communication Environment"

This article develops and relates two separate topics: data security and computer communication. The authors develop a categorization of data security and the parameters associated with the categorization. They survey the various network configurations and present an analysis wherein they incorporate aspects of data security into the network configurations.

d. G.C. Schutz and G.E. Clark, "Data Communication Standards"

The authors present the existing state of data communication standards both in terms of the deliberating bodies and those standards which have been adopted. Further discussion deals with domestic and international standardization. The article then elaborates on the unresolved issues in data communication.