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7 Guest Editor's Introduction: Back-End Storage Networks
   Harvey A. Freeman
   The shared storage will be essential to the success of the large, multiple-host data-base systems of the 1980's.

10 Back-End Network Approaches
   James E. Thornton
   This review of existing back-end networks emphasizes the relationship of their storage aspects to the more general concept of local computer networks.

18 Performance Issues in Back-End Storage Networks
   Imrich Chlamtac, W. R. Franta, P. C. Patton, and Bill Wells
   A back-end storage network allows heterogeneous mainframes and devices to share resources, unhampered by hardware compatibility requirements. This flexibility has implications for the network's performance.

32 Network Architecture Design for Back-End Storage Networks
   Richard W. Watson
   To realize the full potential of computer networking, design of a back-end storage network architecture should follow the general-purpose approach of an evolving network operating system.

50 Back-End Technology Trends
   George A. Champine
   Rapid decreases in hardware costs, increases in economy of scale, and improvements in functionality are accelerating the move to back-end systems.

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59 CMOS LSI—The Computer Component Process of the 80's
   Donald L. Wollesen
   Heat dissipation, or the "thermal barrier," is a problem that circuit designers have faced for years. The answer in the 1980's may be CMOS.

69 An Easy-to-Use Graph Drawing Package
   Judy Butland and S. D. Butland
   With suitable software, some graphics applications can be brought within reach of general computer users who have specific graphical requirements. One such package is SIMPLEPLOT.

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