6 A Digital Signal Generator
Tracy S. Kinsel and John H. Wuorinen
Implemented on a single-chip microcomputer, this digital signal generator can provide low-distortion waveforms of precise frequency in the low-frequency audio spectrum.

17 An Improved Model for a Microcomputer Component—The 6520 PIA
Donald F. Hanson
A student's or designer's ability to predict the outcome of a process is only as good as the model for that process.

26 Intel Local Network Architecture
Robert Ryan, George D. Marshall, Robert Beach, and Steven R. Kerman
Networks using Intel's Local Network Architecture promise significant benefits in resource sharing, communications multiplexing, and distributed computing.

43 Micro-Cobol: A Data Processing Language for Microprocessor Systems
Yaohan Chu and Paul Schapiro
New constructs and the essentials of Cobol are combined to create Micro-Cobol: a new, simple language for small business systems.

56 The MC6809 in DMA Mode on the IEEE-488 Bus
Mike Newman and David Smith
DMA data transfer makes this system faster than ones that are interrupt-driven or based on polling. DMA on the 6809 suits it to applications demanding high data rates.

76 Index—Volume 1, 1981

DEPARTMENTS
3 Letters to the Editor
78 MicroNews: Euromicro 81
80 New Products
86 Product Summary
89 MicroStandards
90 Access
95 Professional Calendar
96 Advertiser/Product Index
101 Selections from the Computer Society Press

Reader Service Cards, p. 97.
Order Form, p. 99.

Computer Society Membership Application, p. 5.