10 Evolution of the Ethernet Local Computer Network
   John F. Shoch, Yogen K. Dalal, David D. Redell, and Ronald C. Crane
As it evolved from a research prototype to the specification of a multicompany standard, Ethernet compelled designers to consider numerous trade-offs among alternative implementations and design strategies.

29 Selecting a Programming Language, Compiler, and Support Environment: Method and Example
   Gordon E. Anderson and Kenneth C. Shumate
Language selection for a specific microprocessor application is often based on an individual's hesitancy to learn a new language or on imposed requirements. It shouldn't be.

39 Imprecision in Computer Vision
   Ramesh Jain and Susan Haynes
Exploiting the uncertainty in data and using a model that parallels the human reasoning process can improve images in computer vision systems.

57 Applying Data Flow Techniques to Data Base Machines
   Haran Boral and David J. DeWitt
Processor allocation based on data-driven execution can enhance parallelism and improve access to large nonnumerical data bases.

65 Validating Solutions to Major Problems in Software Engineering Project Management
   Richard H. Thayer, Arthur Pyster, and Roger C. Wood
A survey of software engineering managers reveals that project success is related to planning, organizing, and control, but more research is needed to find out exactly how and why.

79 Japan's Fifth-Generation Computer Systems
   Philip C. Treleaven and Isabel Gouveia Lima
Believing that von Neumann computers are now an endangered species, the Japanese have started to develop a knowledge-information processing system for the 1990's.