10 Application-Oriented Specifications: Guest Editors' Introduction
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12 Computer-Aided Specification of Process Control Systems
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Requirements have an inherent logical structure that must be detected and codified to obtain a good system design—one that reflects the process it controls.

21 The Design of a Family of Application-Oriented Requirements Languages
Alan M. Davis
This family of requirements languages combines the formality of traditional operational specifications with the readability of technical English. Two languages have already been defined and implemented.

29 Specification Meta Systems
Janos Demetrovics, Elod Knuth, and Péter Rádó
Two-level meta-driven systems provide target-level flexibility but retain the power of narrow target domains. Furthermore, the target-level user need not be specially trained.

36 Development Support Systems
Rudolph J. Lauber
The advent of development support systems and computer-aided engineering is improving the quality of computer-based systems and affecting the way engineers work.

50 An Investigation of Requirement Specification Languages: Theory and Practice
A. A. Levene and G. P. Mullery
This exploration of computer aids for the refinement of a requirement specification language concludes with an experiment using a software development system.

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Chao S. Chi
Advances in existing techniques, the exploration of perpendicular mode recording, and the evolution of functional intelligence are ensuring the continued dominance of magnetic mass storage devices.

75 Ada and Software Development Support: A New Concept in Language Design
Richard J. LeBlanc and John J. Goda
Some of its critics charge that Ada is too complex. Yet the features that make it complex also make it a superior vehicle for large-scale software development.

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