THEME FEATURES

9 Guest Editors’ Introduction: The DoD STARS Program
   Larry E. Druffel, Samuel T. Redwine, Jr., and William E. Riddle

14 The Context of STARS
   Edith W. Martin

21 The STARS Program: Overview and Rationale
   Larry E. Druffel, Samuel T. Redwine, Jr., and William E. Riddle

30 Software Technology in the 1990’s: Using an Evolutionary Paradigm
   Barry W. Boehm and Thomas A. Standish

39 Software Technology in the 1990’s: Using a New Paradigm
   Robert Balzer, Thomas E. Cheatham, Jr., and Cordell Green

47 The Measurement Task Area
   Janet R. Dunham and Elizabeth Kruesi

56 The Project Management Task Area
   H. O. Lubbes

65 The Human Resources Task Area
   Charles E. Oglesby and Joseph E. Urban

71 The Systems Task Area
   Geoffrey A. Frank, Samuel T. Redwine, Jr., and Stephen L. Squires

78 The Application-Specific Task Area
   Joseph C. Batz, Paul M. Cohen, Samuel T. Redwine, Jr., and John R. Rice

86 The Human Engineering Task Area
   Elizabeth Kruesi

97 The Support Systems Task Area
   Ann B. Marmor-Squires, William E. Riddle, George E. Sumrall, and Jack C. Wileden

DEPARTMENTS

6 Special Message: Technical Activities
105 New Products
109 New Literature
110 IC Announcements
111 Microsystem Announcements
113 New Applications
115 Update: Compcon Fall 83
124 Classified Ads

Coming Next Month:
129 Calendar
New VLSI Tools
130 Call for Papers

133 Tables of Contents
134 Book Reviews: Computer Network Architecture
135 The Bookshelf
136 Advertiser/Product Index

Reader Service Cards and Order Form, p. 136A.
Computer Society Membership Application, p. 20.