

Subject Index

- A
- Automata
 Partially Specified Automata, A
 Property of, CHUNG LAUNG
 LIU 169
 Probabilistic Automata, MICHAEL
 O. RABIN 230
 Regular Expressions, Regularity
 Preserving Modifications of, R. E.
 STEARNS AND J. HARTMANIS 55
- C
- Channel Capacity
 Capacity and Error Bounds for a
 Time-Continuous Gaussian Chan-
 nel, R. B. ASH 14
 Capacity, On Channels without a,
 J. WOLFOVITZ 49
 Channels
 Finite-State Channels, On Informa-
 tion Rates for, JOHN J. BIRCH
 372
 Two-way Channels, Loss in Informa-
 tion Transmission Through,
 FREDERICK JELINEK 337
 "Very Noisy" Channels, A Note on,
 BARNEY REIFFEN 126
 Codes
 Affine m -ary Gray Codes, MARTIN
 COHN 70
 Convolution Codes, A Class of,
 ELWYN R. BERLEKAMP 1
 Decipherability Criterion of Sardinas
 and Patterson, A Simple Proof of
 the, G. BANDYOPADHYAY 331
 Error Correcting Codes, Power
 Moment Identities on Weight
 Distributions in, VERA PLESS
 147
- Error-Correcting Codes: An Axio-
 matic Approach, E. F. ASSMUS
 AND H. F. MATTSON 315
 Finite Fields, Computation with,
 THOMAS C. BARTEE AND DAVID I.
 SCHNEIDER 79
- E
- Economic Processes
 Economic Processes Involving Feed-
 back, C. W. J. GRANGER 28
 Entropy of Tamil Prose, GIFT
 SIROMONEY 297
- F
- Feedback Systems
 Linear Dynamic System with
 Periodic Parameters, On The
 Theory of, IMSONG LEE 265
 Phrase-Locked Loops, A Lower
 Bound on Stability in, HARRY L.
 VANTREES 195
- I
- Information Structures
 Information Pattern, Learning
 Structure, and Optimal Decision
 Rule, MINORU SAKAGUCHI 218
- L
- Languages
 Minimal Linear Grammars, The
 Undecidability of the Ambiguity
 Problem for, SHEILA A. GREIBACH
 119
 Phrase Structure Grammars, Dis-
 continuity and Asymmetry in,
 G. H. MATTHEWS 137

- Phrase Structure Languages, Finite
Machines, and Channel Capacity,
RANAN B. BANERJI 153
- Phrase Structure Grammars of
Type 1, Three Theorems on,
PETER S. LANDWEBER 131
- Push-Down Automata, on Context-
Free Languages and, M. P.
SCHÜTZENBERGER 246
- Logic, Devices
Threshold Device, A Geometric
Test-Synthesis Procedure for a,
PHILIP KASZERMAN 381
- Logic Networks
Logical Elements, Redundancy and
Complexity of, S. WINOGRAD 177
- Logic Networks, On Dynamic
Switching in One-Dimensional
Iterative, WILLIAM L. KILMER 399
- P
Pattern Recognition
Pattern Recognition Techniques and
Game-Playing Programs, A Note
on, THOMAS MARILL 213
Recognition of Typed Letters in
Noise, DONALD W. BROWN 301
- S
Sequential Circuits
Sequential Circuits and Carry Leads
in Iterative Networks, Reduction
of Feedback Loops in, E. J. Mc-
CLUSKEY 99
- T
Three-Dimensional Crossword Puzzles
in Hebrew, H. BLUHME 306

Index of Book Reviews

- C
CECCATO, SILVIO, Linguistic Analysis
and Programming for Mechanical
Translation (Mechanical Transla-
tion and Thought) (Heilprin,
Lawrence B.), 163
- F
FANT, G., Acoustic Theory of Speech
Production (Goldstein, Moise H.,
Jr.), 416
FORD, L. R., AND FULKERSON, D. R.,
Flows in Networks (Hu, T. C.),
310
FULKERSON, D. R. (see FORD, L. R.)
- L
LA SALLE, JOSEPH P., AND LEFSCHETZ,
SOLOMON, Recent Soviet Con-
tributions to Mathematics
(Mandelbrot, Benoit), 310
LEFSCHETZ, SOLOMON (see LA SALLE,
JOSEPH P.)
- W
WOLFOWITZ, J., Coding Theorems of
Information Theory (Feinstein,
A.), 311