

Author Index for Papers in Volume 18

*Pages are numbered consecutively through the volume:
1-92, January; 93-192, March; 193-288, May; 289-384,
July; 385-476, September; 477-604, November.*

Anderson, Jr., H. A. and R. G. Sargent, Investigation into Scheduling for an Interactive Computing System 125

Bahl, L. R., *see* Kobayashi, H. 164
Bahl, L. R. and H. Kobayashi, Image Data Compression by Predictive Coding II: Encoding Algorithms 172
Bajorek, C. H., C. Coker, L. T. Romankiw, and D. A. Thompson, Hand-held Magnetoresistive Transducer 541
Bate, G. and L. P. Dunn, Remanent State of Recorded Tapes 563
Beatty, J. C., Register Assignment Algorithm for Generation of Highly Optimized Object Code 20
Beisner, H. M., Numerical Calculation of Normal Modes for Underwater Sound Propagation 53
Belady, L. A. and F. P. Palermo, On-line Measurement of Paging Behavior by the Multivalued MIN Algorithm 2
Benedek, R., *see* Ho, P. S. 386
Birman, A., On Proving Correctness of Microprograms .. 250
Bogy, D. B., H. J. Greenberg, and F. E. Talke, Steady Solution for Circumferentially Moving Loads on Cylindrical Shells 395

Cain, R. G., *see* Hong, S. J. 443
Chang, W., Bulk Queue Model for Computer System Analysis 370
Chang, W. H. and L. G. Heller, Structure Dependence of Free-Charge Transfer in Charge-coupled Devices 436
Chang, W. H. and H. S. Lee, Potential Distribution of an Inhomogeneously Doped MIS Array 47
Choquet, M. F. and H. J. Nussbaumer, Microcoded Modem Transmitters 338
Chow, C. K., On Optimization of Storage Hierarchies ... 194
Chu, C. K., *see* Lay, F. M. 244
Coker, C., *see* Bajorek, C. H. 541
Cole, R. W., R. I. Potter, E. P. Valstyn, K. L. Deckert, and C. C. Lin, Numerical Analysis of Shielded Magnetoresistive Heads 551
Comstock, R. L. and E. B. Moore, Ferrite Film Recording Surfaces for Disk Recording 556

Das, G. and N. A. O'Neil, Preparation of Large-area Electron-transparent Samples from Silicon Devices 76
Deckert, K. L., *see* Cole, R. W. 551
Deckert, K. L., *see* Stahl, K. J. 513
Demsky, H. M., *see* Lever, R. F. 40
DiStefano, T. H. and J. M. Viggiano, Interface Imaging by Scanning Internal Photoemission 94
Donath, W. E., Equivalence of Memory to "Random Logic" 401
Dunn, L. P., *see* Bate, G. 563

El Agizy, M. N., Economic Order and Surplus Quantities Model 72

Fleischer, J. M. and C. Lin, Infrared Laser Interferometer for Measuring Air-bearing Separation 529

Gaver, D. P., P. A. W. Lewis, and G. S. Shedler, Analysis of Exception Data in a Staging Hierarchy 423
Gecsei, J., Determining Hit Ratios for Multilevel Hierarchies 316
Ghosh, S. P. and M. E. Senko, String Path Search Procedures for Data Base Systems 408
Godard, D., Channel Equalization Using a Kalman Filter for Fast Data Transmission 267
Greenberg, H. J., *see* Bogy, D. B. 395
Groom, J. L., *see* Vogel, S. M. 521
Gruenberg, E. L., H. P. Raabe, and C. T. Tsitsera, Self-directional Microwave Communication System 149

Haberland, P. H., *see* Lay, F. M. 244
Hanan, M., A. Mennone, and P. K. Wolff, Sr., Iterative-Interactive Technique for Logic Partitioning 328
Heller, L. G., *see* Chang, W. H. 436
Hempstead, R. D., Thermally Induced Pulses in Magnetoresistive Heads 547
Ho, P. S. and R. Benedek, Interatomic Potentials and Defect Energetics in Dilute Alloys 386
Hong, S. J., R. G. Cain, and D. L. Ostapko, MINI: A Heuristic Approach for Logic Minimization 443
Hong, S. J., *see* Ostapko, D. L. 459
Hong, S. J., *see* Patel, A. M. 579
Huth, B. G., Calculations of Stable Domain Radii Produced by Thermomagnetic Writing 100

Kaneko, T., Optimal Task Switching Policy for a Multilevel Storage System 310
Karnaugh, M., Loss of Point-to-Point Traffic in Three-Stage Circuit Switches 204
Karnaugh, M., Addendum to "Loss of Point-to-Point Traffic in Three-Stage Circuit Switches 465
King, W. F. III, S. E. Smith, and I. Wladawsky, Effects of Serial Programs in Multiprocessing Systems 303
Kobayashi, H., *see* Reiser, M. 110
Kobayashi, H. and L. R. Bahl, Image Data Compression by Predictive Coding I: Prediction Algorithms 164
Kobayashi, H., *see* Bahl, L. R. 172
Kogge, P. M., Parallel Solution of Recurrence Problems ... 138
Kyser, D. F. and K. Murata, Quantitative Electron Microprobe Analysis of Thin Films on Substrates 352

Lanza, C., Analysis of an AC Gas Display Panel 232
Lay, F. M., C. K. Chu, and P. H. Haberland, Simulation of Cyclic Operation of a Gas Panel Device 244
Lee, H. C., Drop Formation in a Liquid Jet 364
Lee, H. S., *see* Chang, W. H. 47
Lenemann, E., Aerodynamic Aspects of Disk Files 480
Lever, R. F. and H. M. Demsky, Water Vapor as an Oxidant in BBr₃ Open-tube Silicon Diffusion Systems 40
Lewis, P. A. W., *see* Gaver, D. P. 423
Lin, C., *see* Fleischer, J. M. 529
Lin, C. C., *see* Cole, R. W. 551
Low, D. W., Optimal Pricing for an Unbounded Queue ... 290
Lukes, J. A., Efficient Algorithm for the Partitioning of Trees 217

Mennone, A., *see* Hanan, M. 328
Moore, E. B., *see* Comstock, R. L. 556
Mulvany, R. B., Engineering Design of a Disk Storage Facility with Data Modules 489
Murata, K., *see* Kyser, D. F. 352

Nussbaumer, H. J., *see* Choquet, M. F. 338

O'Neil, N. A., *see* Das, G. 76

- Ostapko, D. L. and S. J. Hong, Generating Test Examples for Heuristic Boolean Minimization 459
- Ostapko, D. L., *see* Hong, S. J. 443
- Oswald, R. K., Design of a Disk File Head-Positioning Servo 506
- Palermo, F. P., *see* Belady, L. A. 2
- Patel, A. M. and S. J. Hong, Optimal Rectangular Code for High-Density Magnetic Tapes 579
- Pistor, P., Stability Criterion for Recursive Filters 59
- Potter, R. I., *see* Cole, R. W. 551
- Raabe, H. P., *see* Gruenberg, E. L. 149
- Reiser, M. and H. Kobayashi, Accuracy of the Diffusion Approximation for Some Queuing Systems 110
- Romankiw, L. T., *see* Bajorek, C. H. 541
- Rottmann, H. R., Photolithography in Integrated Circuit Mask Metrology 225
- Sargent, R. G., *see* Anderson, Jr., H. A. 125
- Senko, M. E., *see* Ghosh, S. P. 408
- Shedler, G. S., *see* Gaver, D. P. 433
- Smith, S. E., *see* King, W. F. III 303
- Stahl, K. J., J. W. White, and K. L. Deckert, Dynamic Response of Self-Acting Foil Bearings 513
- Su, J. L. and M. L. Williams, Noise in Disk Data-Recording Media 570
- Talke, F. E., *see* Bogy, D. B. 395
- Talke, F. E., *see* Tseng, R. C. 534
- Tang, T., Stress Analysis of Glass-Bonded Ferrite Recording Heads 274
- Thompson, D. A., *see* Bajorek, C. H. 541
- Thornley, R. F. M. and J. A. Williams, Switching Speeds in Magnetic Tape 576
- Tseng, R. C. and F. E. Talke, Transition From Boundary Lubrication to Hydrodynamic Lubrication of Slider Bearings .. 534
- Tsitsera, C. T., *see* Gruenberg, E. L. 149
- Valstyn, E. P., *see* Cole, R. W. 551
- Viggiano, J. M., *see* DiStefano, T. H. 94
- Vogel, S. M. and J. L. Groom, White-Light Interferometry of Elastohydrodynamic Lubrication of Foil Bearings 521
- White, J. W., *see* Stahl, K. J. 513
- Williams, J. A., *see* Thornley, R. F. M. 576
- Williams, M. L., *see* Su, J. L. 570
- Wladawsky, I., *see* King, W. F. III 303
- Wolff, Sr., P. K., *see* Hanan, M. 328