

7/21/810
Graduate College
Center for Advanced Computation
Documents, 1970-1977

Box 1:

Index No. 1-187, Undated
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- No. 1: "An Information Management and Analysis System for Illiac IV" by Stewart A. Schuster, December 11, 1970
- No. 2: "A Statistical System for Iliac IV" by Stewart A. Shuster, December 11, 1970
- No. 3: "The Tuning of Buffer Parameters for the Illiac IV Data Management System" by Stewart A. Schuster, January 15, 1971
- No. 4: "A Matrix-Generator System for Linear Programming Problems" by Ian W. Marceau and Thomas W. Mason, June 30, 1971
- No. 5: "Analysis of Simultaneous Operations and Memory Conflict in a Multimemory Computer System" by Luther C. Abel, March 15, 1971
- No. 6: "OSL/2 An Operating System Language" by Peter Allyn Alsberg, June 10, 1971
- No. 7: "Economic Research Group Working Paper No. 1: Progress Report on the Development of a Large-Scale Conditional Consistent Economic and Manpower Forecasting Model" by Roger H. Bezdek, July 27, 1971
- No. 8: "Economic Research Group Working Paper No. 2: Occupational Manpower Impacts of Shifting National Priorities" by Roger H. Bezdek, July 27, 1971
- No. 9: "Parallel Computation of Eigenvalues of Real Matrices" by David J. Kuck and Ahmed Sameh, November 1, 1971
- No. 10: "An Introduction to the Illiac IV System" by Stewart A. Denenberg, July 15, 1971
- No. 11: "A Parallel Scheme for Reducing a Real Matrix to the Upper Hessenberg Form" by Masako Ogura, September 1, 1971
- No. 12: "The Qr-Algorithm" by Masako Ogura, September 1, 1971
- No. 13: "Economic Research Group Working Paper No. 3: Long-Range University Planning in the Face of Variable Demands for Educated Manpower" by Roger H. Bezdek, September 1, 1971
- No. 14: "Economic Research Group Working Paper No. 4: Manpower Analysis Within an Interindustry Framework: Theoretical Potential and Empirical Problems" by Roger H. Bezdek, September 1, 1971
- No. 15: "Economic Research Group Working Paper No. 5: The CAC Economic and Manpower Forecasting Model: Documentation and User's Guide" by R.H. Bezdek, R.M. Lefler, A.L. Meyers, and J.H. Spoonamore, October 15, 1971
- No. 16: "Economic Research Group Working Paper No. 6: Simulating the Employment Impacts of the Urban Coalition's Counterbudget" by Roger H. Bezdek and James G. Scoville, October 15, 1971
- No. 17: "A Fast Fourier Transform Subroutine for Illiac IV" by James E. Stevens, Jr., October 15, 1971

- No. 18: "Parallel Radiation Transport Code: A Monte Carlo Method Applied to Illiac IV and its Statistical Consideration" by Ken'ichi Miura, October 1, 1971
- No. 19: "Illiac IV Codes for Jacobi and Jacobi-Like Algorithms" by Winfried H. Bernhard, November 5, 1971
- No. 20: "Numerical Solution of the Partial Differential Equations of Gas Dynamics" by S. Rajan, November 5, 1971

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- No. 21: "A Jacobi Algorithm for Illiac IV" by Lawrence M. McDaniel, November 8, 1971
- No. 22: "An Investigation into Information Retrieval Utilizing Illiac IV" by B. Wittman and Allairion Company, November 30, 1971
- No. 23: "System Energy and Recycling a Study of the Beverage Industry" by Bruce M. Hannon, January 5, 1972 (Includes revised copy, 1975)
- No. 24: "A Numerical Solution of the Matrix Riccati Equations" by Killion Noh, January 20, 1972
- No. 25: "An Array Processor with a Large Number of Processing Elements" by Nelson Castro Machado, January 1, 1972
- No. 26: "An Introduction to the Analysis of Time Series" by K. Miura, November 8, 1971
- No. 27: "The Application of Plasma Panel Technology to Graphic Display Terminals" by Michael L. McMahan, January 7, 1972
- No. 28: "Application of Computer Technology to the Working-Drawings Phase of Architecture" by Glenn LaVine, January 1972
- No. 29: "Some Illiac IV Algorithms for Signal Processing" by Joseph A. Garber, March 1972
- No. 30: "A 10-Page Description of the Illiac IV System" by Stewart A. Denenberg, October 12, 1971
- No. 31: "Peespol Overview" by David M. Grothe, July 1971
- No. 32: "Center for Advanced Computation Semi-Annual Technical Report July 12, 1971-March 31, 1972", April 1972
- No. 33: "Economic Research Group Working Paper #7: Progress Report on the Impact of the Emergency Employment Act in Illinois" by Roger H. Bezdek, March 1, 1972
- No. 34: "Symmetric Decomposition of Positive Definite Band Matrices and the Corresponding Solution of Systems of Linear Equations on Illiac IV" by Lawrence M. McDaniel, July 1, 1972
- No. 35: NARIS: A Natural Resource Information System, ca. 1972-1973
- No. 36: "NARIS: Data Insertion Manual," August 15, 1972
- No. 37: "NARIS: Data Coding Manual," August 20, 1972
- No. 38: "IRIS/NARIS User Manual," June 30, 1972
- No. 39: "Illinois Data Catalog (Preliminary Print)", 1972

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- No. 40: “An Illiac IV Gaussian Elimination Package for Non-Core-Contained Matrices” by Susan Ann Pace, September 1, 1972
- No. 41: “The Block-Iterative Method for Illiac IV” by Kenichi Miura, July 22, 1971
- No. 42: “Getting Started on the ARPA Network” by Stewart A. Denenberg, August 1, 1972
- No. 43: “Blocks: A Fortran IV Program for Plotting Planar Projections of Three-Dimensional Block Models” by Robert M. Ray, June 15, 1972
- No. 44: “Information Retrieval and the Illiac IV” by Dorothy J. Hopkin, May 1972
- No. 45: “The Development of a System for the Application of Grey-Scale Computer Graphics to Presentation of Three-Dimensional Structures for Computer-Aided Ship Design Interim Report: Part I: Documentation of the LINESCAN Algorithm” by Karl C. Kelley, September 18, 1972
- No. 46: “A Linear Programming Implementation” by Jonathan Lermitt, Revised May 7, 1973
- No. 47: “ANTS: A New Approach to Accessing the ARPA Network” by Stewart A. Denenberg and J.W. Bouknight, August 1972
- No. 48: “Center for Advanced Computation Semi-Annual Technical Report”, April 1, 1972 – September 30, 1972
- No. 49: “Numerical Methods for the Identification of Differential Equations” by Raymond Jonathan Lermitt, June 12, 1972
- No. 50: “A Computational Technique for High Subsonic Compressible Flow Past a Circular Cylinder on a Parallel Computer” by S. Rajan, October 20, 1972
- No. 51: “A Generalized Illiac IV Urban Land Use Planning Model” by Robert M. Ray, October 1972
- No. 52: “Some Extremal Problems in Geometry and Analysis” by George B. Purdy, July 1, 1972
- No. 53: “On the Identification of Multi-Output Linear Time-Invariant and Periodic Dynamic Systems” by Ahmed H. Sameh and Walter L. Heimerdinger, November 1, 1972
- No. 54: “An Algorithm for Fitting Related Sets of Straight-Line Data” by Geneva G. Belford, December 13, 1972
- No. 55: “Population Projections for Manpower Planning” by Anthony L. Redwood, February 15, 1973

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- No. 56: “Augmented Significance Routines for Illiac IV” by R.J. Lermitt and J.M. Randal, December 1972
- No. 57: “On Jacobi and Jacobi-Like Algorithms for a Parallel Computer” by Ahmed H. Sameh, December 11, 1972
- No. 58: “Fast Heuristic Techniques for Placing and Wiring Printed Circuit Boards” by James Edward Stevens, Jr., October 1972
- No. 59: “A Study of the Efficiency of Illiac IV in Hydrodynamic Calculations” by Masako Ogura, Michael S. Sher, and James H. Ericksen, December 11, 1972

- No 60: "Iterative and Direct Methods for Solving Poisson's Equation and Their Adaptability to Illiac IV" by James H. Eriksen, December 20, 1972
- No. 61: "Simultaneous Fitting of Exponential Decay Curves" by Geneva G. Belford, April 1, 1973
- No. 62: "Evaluation of Numerical Viscosity Effects in Transonic Flow Calculations" by S. Rajan, January 1973
- No. 63: "Derivation of the 1963 and 1967 Total Employment Vector for 362 and I/O Sectors" by Roger Bezdek, Bruce Hannon, and Susan Nagakama, April 4, 1973 (Includes revised copy)
- No. 64: "Computational Mathematics Abstracts" edited by Geneva Belford, Jonathan Lermitt, George Purdy, and Ahmed Sameh, February 1973
- No. 65: "The Structure of Labor Market Segmentation of Occupations: Some Evidence from Factor Analysis" by Robert C. Dauffenbach, February 19, 1973
- No. 66: "Methods for Increasing the Computational Efficiency of Input-Output and Related Large Scale Matrix Occupations" by Ahmed H. Sameh and Roger H. Bezdek, 1973
- No. 67: "The Use of Illiac IV to Solve Numerical Fluid Dynamics Problems" by Paul T. Cichy, February 27, 1973
- No. 68: "An Energy, Pollution and Employment Policy Model" by Hugh Folk and Bruce Hannon, February 10, 1973
- No. 69: "An Energy Input-Output Matrix for the United States, 1963: User's Guide" by Robert A. Herendeen, March 4, 1973
- No. 70: "Necessary Elements of a State Land Use Planning Process" by Clark W. Bullard, August 31, 1972
- No. 71: "The Quadratic Assignment Problem" by George B. Purdy, February 1973
- No. 72: "Locating Optimal Sites in Geographic Information Systems" by Stewart Arnold Schuster, June 9, 1973
- No. 73: "Two Papers on the Effects of Mandatory Deposits on Beverage Containers" by Hugh Folk, January 1973
- No. 74: "Center for Advanced Computation Semi-Annual Technical Report", October 1, 1972-March 31, 1973
- No. 75: "Investigation of One-Step Methods for Integro-Differential Equations" by Geneva G. Belford and Surender Kumar Kenue, May 1973
- No. 76: "Algorithm for High Security Codes" by George Purdy, June 6, 1973

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- No. 77: "The Structure of Ecosystems" by Bruce Hannon, January 30, 1973
- No. 78: "The Illinois Consumer's Role in Energy Conservation" by Clark W. Bullard III, June 13, 1973
- No. 79: "Options for Energy Conservation" by Bruce Hannon, 18 June, 1973
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- No. 81: "NTS Report No. 4: Experience in Networking – A Case Study" by Michael S. Sher, July 1973

- No. 82: "On-Line Computer Text Processing: A Tutorial" by Richard C. Roistacher, August 15, 1973
- No. 83: "The Development of a System for the Application of Grey-Scale Computer Graphics to Presentation to Three-Dimensional Structures for Computer-Aided Ship Design Interim Report Part I: Display Recommendation" by Steve Holmgren, September 12, 1973
- No. 84: "The Development of a System for the Application of Grey-Scale Computer Graphics to Presentation to Three-Dimensional Structures for Computer-Aided Ship Design Interim Report Part I: Programming the Linescan Algorithm" by Steve Holmgren and Suzanne Sluizer, September 12, 1973
- No. 85: "Geophagy: A Dietary Practice in Holmes County, Mississippi" by Dennis A. Frate, September 1973
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- No. 87: "County Jails in Illinois: A Comparative Analysis" by John R. Kimberly and David B. Rottman, August 31, 1973
- No. 88: "Low Sulfur Coal: A Revision of Reserve and Supply Estimates" by Michael Rieber, Revised November 30, 1973
- No. 89: "Accounting System Primer" by Peter A. Alsbury, October 1973
- No. 90: "Computational Mathematics Abstracts" edited by Geneva Belford, Jonathan Lermitt, George Purdy, and Ahmed Sameh, October 1973
- No. 91: "On the Intermediate Eigenvalues of Symmetric Sparse Matrices" by A. Sameh, J. Lermitt, and K. Noh, October 1973
- No. 92: "A Differential Correction Algorithm for Exponential Curve Fitting" by Geneva G. Belford and John F. Burkhalter, November 1, 1973
- No. 93: "Center for Advanced Computation Semiannual Technical Report", 1 April 1973-30 September 1973
- No. 94: "Mathematical Software and Computer Networks" by Lawrence M. McDaniel, October 22, 1973
- No. 95: "Energy Conservation Through Taxation" by Clark W. Bullard III, February 5, 1974
- No. 96: "The Dollar, Energy, and Employment Impacts of Air, Rail, and Automobile Passenger Transportation" by Anthony Sebald and Robert Herendeen, September 1974

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- No. 97: "The Dollar, Energy, and Employment Impacts of Certain Consumer Options, Vol. 1" by Robert Herendeen and Anthony Sebald, April 1974
- No. 98: "Transferring From Urban Cars to Buses: The Energy and Employment Impacts" by Bruce Hannon and F. Puleo, April 1974
- No. 100: "A Stress Modem for Mass Transit Systems" by Bruce M. Hannon and F. Puleo, September 1974
- No. 101: "Energy and Manpower Effects of Alternate Uses of the Highway Trust Fund" by Roger H. Bezdek and Bruce Hannon, November 1973

- No. 102: "Affluence and Energy Demand" by R.A. Herendeen, Undated
- No. 103: "The Structure of Occupational Mobility in the U.S. Economy" by Robert C. Dauffenbach, Jr., December 1973
- No. 104: "Supplementary Appendix to CAC Document No. 103, The Structure of Occupational Mobility in the U.S. Economy", December 1973
- No. 105: "Energy Use in the Commercial and Industrial Sectors of the U.S. Economy, 1963" by Clark W. Bullard and Robert A. Herendeen, November 21, 1973
- No. 106: "Development of the Activity Vectors Used in 'Energy and Manpower Effects of Alternate Uses of the Highway Trust Fund'" by Roger H. Bezdek, May 1973
- No. 107: "A Microeconomic Model of Sociometric Choice" by Richard C. Roistacher, January 1974
- No. 108: "U.S. Energy and Fuel Demand to 1985: A Composite Projection by User Within Pad Districts" by Michael Rieber and Ronald Halcrow, May 1974
- No. 109: "A Parallel Algorithm for Symmetric Tridiagonal Eigenvalue Problems" by Hui-Ming Huang, February 1974
- No. 110: "An Algorithm for the Generalized Eigenvalue Problem $Ax = [\text{Lambda}]Bx$ " by Chang-Chung Chang, February 14, 1974

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- No. 111: "The Principal Components of Occupational Structure: A Factor Analysis Approach" by Edward T. Willauer, Jr., February 19, 1974
- No. 112: "Implementation of Illiac IV Algorithms for Multispectral Image Interpretation Final Report" by Robert Ray, Principal Investigator, June, 1974
- No. 113: "Toward Keystones for Theories of Natural Communications" by Robert Ray III, August, III
- No. 114: "EDITOR: An Interactive Interface to ILLIAC IV – ARPA Network Multispectral Image Processing Systems" by Robert M. Ray III et al, June 1975
- No. 115: "Distributed Data Management in the WWMCCS Environment" by Peter A. Alsberg, April 23, 1974
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- No. 117: "Using Microprogramming to Implement Graphics Systems on Network Computers" by M. Talaat, January 1973
- No. 118: "A Method for Analyzing, Detecting, and Correcting Multicollinearity" by Morris M. Kleiner and John T. Soma, May 1974
- No. 119: "Semiannual Technical Report of the Center for Advanced Computation", October 1, 1973-March 31, 1974
- No. 120: "The Legal Protection of Computer Software" by John T. Soma and Richard Michael Fischl, October 1974
- No. 121: "Forecasting Net Interstate Labor Migration for Regional Planning" by Morris M. Kleiner, January 1974
- No. 122: "An Analysis of the Sensitivity of Large Scale Input-Output Models to Parametric Uncertainties" by Anthony Vincent Sebald, November 1974
- No. 123: "Three Papers of Social and Economic Aspects of the Black Community of Chicago" by Charles M. Christian, ca. 1976

- No. 124: "PEESPOL: A Metaprogramming Language for Operating Systems" by David M. Grothe, December 1973
- No. 125: "The Care and Feeding of the Peespol Compiler" by David M. Grothe, August 15, 1974
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- No. 127: "Energy Intensity of Barge and Rail Freight Hauling" by Anthony V. Sebald, May 1974
- No. 128: "Energy and Employment Impacts of Final Demand Activities, 1963" by Bruce Hannon and Nadine Abbott, June 1974
- No. 129: "A Review of Mathematical Methods in Sociometry" by Richard C. Roistacher, August 17, 1974
- No. 130: "A Railway Trust Fund" by Bruce Hannon, April 1974
- No. 131: "Marginal Product Pricing in the Ecosystem" by Bruce Hannon, July 1974

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- No. 133: "An Analysis of Interregional Migration for Manpower Planning" by Morris M. Kleiner, August 31, 1974
- No. 134: "Computational Techniques for Input-Output Econometric Models" by Killion Noh and Ahmed Sameh, September 1974
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- No. 137: "Nuclear Power to 1985: Possible Versus Optimistic Estimates" by Michael Rieber and Ronald Halcrow, November 1974
- No. 138: "Hypertension in Holmes County, Mississippi" by James A. Shcoenberger, et al, November 1974
- No. 139: "On Methods for Direct Quantification of Pattern Associations" by Robert M. Ray III, November 1974
- No. 140: "Energy Cost of Goods and Services, 1963 and 1967" by Robert A. Herendeen and Clark W. Bullard III, November 1974
- No. 141: "Energy Conservation in Illinois: Reports I and II" by Robert Herendeen, Ken Kirkpatrick, and James Skelton, December 1974
- No. 142: "Energy, Employment, and Transportation" by Bruce M. Hannon, December 1974
- No. 145: "End Uses of Energy in the U.S. Economy, 1967" by Ronald L. Knecht and Clark W. Bullard III, January 1975

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- No. 146: "A Model for Analyzing Energy Impact of Technological Change" by Clark Bullard III and Anthony V. Sebald, 1975
- No. 147: "Regional Patterns of Energy Consumption in the U.S., 1967" by R. Thomas Van Arsdall, February 1975
- No. 149: "An Annotated Bibliography to Network Data Management and Related Literature," April 1, 1975
- No. 150: "A State-of-the-Art Report on Network Data management and Related Technology," April 1, 1975
- No. 153: "A Linear Model for Optimal Fuel Allocation" by Clark W. Bullard III and Daniel E. Putnam, March 1975
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- No. 158: "The Effect of the Energy Cost of Insulation and Storm Windows and Doors on the Decision to Install Them as an Energy Saving Policy" by Anthony Sebald, April 1975
- No. 159: "Research in Network Data Management and Resource Sharing: Scenario Report," May 19, 1975
- No. 160: "Research in Network Data Management and Resource Sharing: Application Summary," May 19, 1975
- No. 161: "Research in Network Data Management and Resource Sharing: Technology Summary," May 19, 1975
- No. 162: "Research in Network Data Management and Resource Sharing: Preliminary Research Study Report," May 19, 1975

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- No. 163: "The Coal Future: Economic and Technological Analysis of Initiatives and Innovations to Secure Fuel Supply Independence" by Michael Rieber, Shao Lee Soo, and James Stukel, May 1975
 - Appendix B: "Capital and Fuel Cycle Energy Costs of a 1,000 Mile Nuclear Reactor", 1975
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 - Appendix F: "Coal Transportation: Unit Trains – Slurry and Pneumatic Pipelines", 1975
 - Appendix G: "Flue Gas Desulfurization and Low Btu Gasification – A Comparison", 1975
 - Appendix H: "Medium Btu Coal Gasification", 1975
- No. 164: "Research in Network Data Management and Resource Sharing: Research Plan," June 23, 1975
- No. 165: "Total Energy Requirements for Nine Electricity-Generating Systems," by David A. Pilati and Ralph P. Richard, August 1975

- No. 166: "Employment Effects of the Accelerated Building Program," by Hugh Folk, July 9, 1975
- No. 167: "Energy Separability and Production: A Taxonomic Note," by Clark W. Bullard III and Ayre L. Hillman, April 1975
- No. 168: "Summary of Illiac IV – ARPA Network Multispectral Image Processing Research Activities Final Report," by Robert M. Ray III, August 1975
- No. 169: "Research in Network Data Management and Resource Sharing: Initial Mathematical Model Report," August 20, 1975
- No. 170: "Research in Network Data Management and Resource Sharing: Preliminary Experimental System Design Report," August 20, 1975

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- No. 175: "The Energy Intensity of U.S. Tradeable Goods Production in the 1960s: Implications for the Leontief Paradox and Project Independence" by Clark W. Bullard III and Arye L. Hillman, August 1975
- No. 176: "Research in Network Data Management and Resource Sharing: Management Plan" by P.A. Alsberg, September 1975
- No. 177: "Illiac IV Applications Research: Final Semi-Annual Technical Report", 1974
- No. 178: "Direct and Indirect Requirements for a Project Independence Scenario" by Clark W. Bullard and David A. Pilati, September 1975
- No. 179: "Research in Network Data Management and Resource Sharing: A Cost Model for Data Distribution," November 1, 1975
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- No. 182: "The Dollar, Energy and Employment Costs of Protein Consumption" by Bruce M. Hannon, Carol Harrington, Robert W. Howell, and Ken Kirkpatrick, July 1976
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- No. 188: "IRIS/NARIS: A Geographic Information System for Planners" by Peter A. Alsberg et al, January 1975
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- No. 190: "Route Specific Cost Comparisons: Unit Trains, Coal Slurry Pipelines and Extra High Voltage Transmission" by Michael Rieber and Shao Lee Soo, May 1976
- No. 191: "Uncertainty in the 1967 U.S. Input-Output Data" by Clark W. Bullard, April 1976

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- No. 192: "The Bleeder's Digest: A Campus Blood Collection Reference Manual" by Melissa Bean, John Hackmann, and Paul Pisarik, March 16, 1976
- No. 193: "Your Congregation and Blood Donation: A Manual", 1976
- No. 194: "Help Avert a Holiday-Season Blood Shortage" by David Eisenman and John Hackman, April 30, 1976
- No. 196: "Terminal Progress Report of the Altruistic Blood Donor Program Dissemination," May 14, 1976
- No. 197: "Research in Network Data Management and Resource Sharing: Optimization Problems in Distributed Data Management," May 1, 1976
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- No. 200: "The Impact of Computers on Book and Journal Publications" by Hugh Folk, April 26, 1976
- No. 201: "Economic and Demographic Forecasting for Chicago: Final Report" by Thomas P. Milke and Hugh Folk, May 1976
- No. 202: "Research in Network Data Management Resource Sharing: Multi-Copy Resiliency Techniques," May 31, 1976
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- No. 204: "Energy Requirements for Aerosol and Alternative Packaging: A Case Study" by Peter S. Penner, February 15, 1976
- No. 205: "Reducing Uncertainty in Energy Analysis" by Clark Bullard III and David A. Pilati, March 1976
- No. 206: "Nonresidential Building Energy Use 1976-2010" by Donna Amado and David A. Pilati, August 1976
- No. 207: "The Data Interchange File: A First Report" by Richard C. Roistacher, 21 June 1976
- No. 208: "Stochastic Analysis of Uncertainty in a U.S. Input-Output Model" by Clark W. Bullard, Donna L. Amado, Dan L. Putnam, and Anthony V. Sebald, September 1976
- No. 209: "Research in Network Data Management and Resource Sharing: Experimental System Progress Report," September 30, 1976

No. 210: "Research in Network Data Management and Resource Sharing: Final Research Report," September 30, 1976

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- No. 213: "Recommendation of Computer Systems for Operation of the Habitability Data Base" by Karl C. Kelley and James A. Gast, September 30, 1976
- No. 214: "Net Energy Analysis: Handbook for Combining Process and Input-Output Analysis" by Clark W. Bullard, Peter S. Penner, and David A. Pilati, October 1976
- No. 216: "Proposed Unix Modifications for a National Software Works Implementation" by Steven F. Holmgren, September 20, 1976
- No. 217: "Stockpile Optimization: Energy and Versatility Considerations for Strategic and Critical Materials" by Peter Penner and Jaap K. Spek, May 1976
- No. 218: "Error Analysis of the Combined Illinois-Brookhaven Energy Model" by Clark W. Bullard III, November 1976
- No. 220: "Networking Research in Front Ending and Intelligent Terminals: H6000 Software Specifications," January 10, 1977
- No. 221: "Networking Research in Front Ending and Intelligent Terminals: Experimental Network Front End Functional Description," January 15, 1977
- No. 223: "Final Report: Comparative Coal Transportation Costs: An Economic and Engineering Analysis of Truck, Belt, Rail, Barge and Coal Slurry and Pneumatic Pipelines" Vols. 1-8 by Michael Rieber, Shao Lee Soo et al, August 1977
- No. 224: "Population Projections for the Ohio River Basin: 1970 to 2010" by Thomas P. Milke, Robert C. Dauffenbach, and Eric Holshouser, February 18, 1977
- No. 226: "Sensitivity Analysis of the Redwood Matrix" by Robert Schulman and Doug Gilmore, February 1977
- No. 227: "Networking Research in Front Ending and Intelligent Terminals: Experimental Network Front End Experiment Plan," May 16, 1977
- No. 228: "Energy Use for Building Construction" by B.M. Hannon, R.G. Stein, B.Z. Segal, D. Serber, February 1977

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- No. 228-A: "Energy Use for Building Construction" Supplement by B.M. Hannon et al, October 1977
- No. 230: "Networking Research in Front Ending and Intelligent Terminals: Offloading ARPANET Protocols to a Front End," September 30, 1977
- No. 231: "Net Energy Effects and Resource Depletion: An All-Oil Economy" by Peter S. Penner and Donna Amado, April 1977
- No. 232: "Network Research in Front Ending and Intelligent Terminals: Experimental Network Front End Software Functional Description," August 1, 1977
- No. 233: "Experimental Network Front End Software Functional Description" by Steven Holmgren et al, August 1977

- No. 234: "Optimization of a Relational-Algebra Query to a Distributed Database Using Statistical Sampling Methods" by David A. Wilcox, August 1, 1977
- No. 235: "An Efficient Algorithm for Solving the Linear Input Output Equation with an Extension to the Nonlinear Input Output Model" by Doug Gilmore, August 1977
- No. 236: "Research in Network Data Management and Resource Sharing: Intelligent Terminal Programmer's Manual" Volume 1 & 2, October 31, 1977
- No. 238: "Net Energy Effects and Resource Depletion An All-Nuclear Economy" by Peter S. Penner, Clark W. Bullard, and Donna L. Amado, September 1977

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- No. 239: "Networking Research in Front Ending and Intelligent Terminals: Unix/ENFE Experimental Performance Report," September 30, 1977
- No. 240: "Networking Research in Front Ending and Intelligent Terminals: ENFE Final Report," September 30, 1977
- No. 249: "Scientific and Technical Personnel in Energy-Related Activities: Current Situation and Future Requirements" by Hugh Folk et al, July 1, 1977
- No. 251: "Pelletized vs. Natural Iron Ore Technology Energy, Labor, and Capital Changes" by Peter Kakela, December 1977
- No. 252: "Research in Network Data Management and Resource Sharing: Intelligent Terminal Software Flowcharts," October 31, 1977
- No. 256: "Energy, Ecology, and the Steel Industry – An Industrial Relations Perspective" by Jack Fiorito, November 1977
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