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# **FACULTY PUBLICATIONS**

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**January 1 through December 31, 1978**



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BARBAN, ARNOLD M., Professor and head of department

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CAMPBELL, JOHN R., Associate Dean and Professor

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LEATH, MACK N., Associate Professor

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BARBAN, ARNOLD M., Professor, See: Advertising

BREWER, WILLIAM F., Research Associate Professor

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MERRITT, RICHARD, Research Professor, See: Political Science

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#### COMPUTER-BASED EDUCATION RESEARCH LABORATORY

AVNER, R. A., Senior Specialist in Automated Education

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Introduction to the sine function.

Solving oblique triangles.

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With G. Hyatt

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With P. Thompson

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BITZER, DONALD L., Professor and Director

## Articles

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CURTIN, CONSTANCE, Assistant Specialist in Education

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DAVIS, CELIA R., Specialist in Automated Education

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DAVIS, ROBERT B., Professor and Associate Director, See: College of Education.

DIBELLO, LOUIS V., Specialist in Automated Education

## Computer Sequences

With T. Abeliovich

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With K. Bailey

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Slide rule.

## Computer Lessons

Binomial products. Minneapolis: Control Data.

Factoring quadratic polynomials.

Solving quadratic equations.

DUGDALE, SHARON L., Senior Specialist in Automated Education

## Computer Sequences

With D. Kibbey, H. Leung

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Boxes: equivalent fractions. Minneapolis: Control Data.

Boxes: equivalent fractions practice.

Boxes: how much is painted?

Boxes: name equivalent fractions.

Checksum: boxes equivalent fractions.

Checksum: cut and paint.

Checksum: equivalent fractions generalized.

Checksum: inequalities.

Checksum: paint addition.

Cut and paint.

Equivalent fractions generalized.

Fraction notation.

Inequalities with like denominators.

Inequalities with unlike denominators.

Introduction to multiplying mixed numbers.

Paint addition: PLATO paints.

Paint addition: you paint.

Paint addition: your choice.

Paint and compare.

Paintings library.

With D. Kibbey, B. Cohen

Addition and subtraction of mixed numbers with like denominators. Minneapolis: Control Data.

Addition practice, simplifying answers.

Checkup: darts number line.

Darts.

Simplifying answers to addition problems.

Skywriting and spider web.

Standard form checkup.

Standard form practice.

With D. Kibbey, T. Layman

Candy warehouse. Minneapolis: Control Data.

Checkup: equivalent fractions.

Checkup: equivalent mixed numbers.

Checkup: mixed numbers with pizza.

Decimal torpedo.

High wire.

Mixed number notation.

New answer format.

Number line: whole numbers.

Obstacle course.

Splash.

Target practice.

Torpedo.

Try these: equivalent fractions.

Try these: equivalent mixed numbers.

Try these: fractions and mixed numbers.

Vocabulary: whole number, fraction, mixed number.

Whole number operations practice.

Whole number torpedo.

With D. Kibbey, H. Leung

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Addition with equivalence sets.

Beehive.

Checkup: addition and subtraction with unlike denominators.

Checkup: decimal and fraction conversions.

Checkup: decimal darts.

Checkup: multiplication of mixed numbers.

Checkup: pizza fractions.

Checkup: simplest terms.

Checkup: sort equivalent fractions.

Decimal darts.

Decimal names for fractions.

Decimal pinball.

Equivalence experience.

Fraction names for decimal numbers.

Mixed number multiplication practice.

Multiplication of fractions.

Multiplication practice, with pictures for help.

Pick a tub.

Pinball.

Pizza: common denominator.

Simplest terms.

Sort equivalent fractions.

Sort equivalent mixed numbers.

Sort equivalent problems.

Sort number names with decimals.

Sort numbers by form.

Strategies for listing equivalence sets.

Strategies for multiplying mixed numbers.

Units.

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With D. Kibbey, B. Cohen, T. Layman

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Make-a-monster: equivalent fractions.

Make-a-monster with one cup.

With D. Kibbey, B. Cohen, H. Leung

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Checkup: add and subtract mixed numbers.

Fractions basketball.

Subtraction with borrowing.

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Lights: equivalent fractions.

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FILLMAN, LEALIE A., Specialist in Automated Education

#### Computer Sequences

With D. Silver, et al.

PLATO elementary reading curriculum. Minneapolis: Control Data.

GOLDEN, WILLIAM M., Principal Specialist in Automated Education

#### Computer Lessons

Guess the number. Minneapolis: Control Data.

Introduction to multiplication.

Mental arithmetic.

Mixed drill.

Pitcher pouring problems.

Probability game.

Skip counting.

Subtraction.

With O. Vretblad

Happy addition. Minneapolis: Control Data.

With B. Cohen, S. Dugdale, D. Kibbey

Sticks 'n string. Minneapolis: Control Data.

KIBBEY, DAVID L., Senior Specialist in Automated Education

#### Computer Sequences

With S. Dugdale, H. Leung

Addition by using an easier problem. Minneapolis: Control Data.

#### Computer Lessons

With S. Dugdale

Candy factory. Minneapolis: Control Data.

With S. Dugdale, M. Bereiter

Boxes: equivalent fractions. Minneapolis: Control Data.

Boxes: equivalent fractions practice.

Boxes: how much is painted?

Boxes: name equivalent fractions.

Checkup: boxes equivalent fractions.

Checkup: cut and paint.

Checkup: equivalent fractions generalized.

Checkup: inequalities.

Checkup: paint addition.

Cut and paint.

Equivalent fractions generalized.

Fraction notation.

Inequalities with like denominators.

Inequalities with unlike denominators.

Introduction to multiplying mixed numbers.

Paint addition: PLATO paints.

Paint addition: you paint.

Paint addition: your choice.

Paint and compare.

Paintings library.

With S. Dugdale, B. Cohen

Addition and subtraction of mixed numbers with like denominators. Minneapolis: Control Data.

Addition practice, simplifying answers.

Checkup: darts number line

Darts.

Simplifying answers to addition problems.

Skywriting and spider web.

Standard form checkup.

Standard form practice.

With S. Dugdale, H. Leung

Addition and subtraction practice with equivalence sets. Minneapolis: Control Data.

Addition with equivalence sets.

Beehive.

Checkup: addition and subtraction with unlike denominators.

Checkup: decimal and fraction conversions.

Checkup: decimal darts.

Checkup: multiplication of mixed numbers.

Checkup: pizza fractions.

Checkup: simplest fractions.

Decimal darts.

Decimal names for fractions.

Decimal pinball.

Equivalence experience.

Fraction names for decimal numbers.

Mixed number multiplication practice.

Multiplication of fractions.

Multiplication practice, with pictures for help.

Pick a tub

Pinball

Pizza: common denominator

Simplest terms.

Sort equivalent fractions.

Sort equivalent mixed numbers.

Sort equivalent problems.

Sort number names with decimals

Sort numbers by form

Strategies for listing equivalence sets.

Strategies for multiplying mixed numbers.

Units.

With S. Dugdale, M. Bereiter, T. Layman

Addition and subtraction drill: like and unlike denominators. Minneapolis: Control Data.

With S. Dugdale, B. Cohen, T. Layman

Make-a-monster. Minneapolis: Control Data.

Make a monster: equivalent fractions.

Make-a-monster with one cup.

With S. Dugdale, B. Cohen, H. Leung

Addition and subtraction practice with simplifying and borrowing. Minneapolis: Control Data.

Checksum: add and subtract mixed numbers.  
 Fractions basketball.  
 Subtraction with borrowing.

With S. Dugdale, B. Cohen, W. Golden

Sticks 'n string. Minneapolis: Control Data.

With S. Dugdale, T. Layman, S. Lamprinos

Checksum: lights. Minneapolis: Control Data.

Lights.

Lights: equivalent fractions.

With S. Dugdale, T. Layman, H. Leung

Facts practice. Minneapolis: Control Data.

With S. Dugdale, et al.

Pizza: assorted problems. Minneapolis: Control Data.

Pizza: cutter stuck.

Pizza: fraction.

Pizza: mixed numbers introduction.

Pizza: 2 pizzas for 3 kids.

KRAATZ, JAMES M., Specialist in Automated Education

#### Computer Lessons

General statistics and matrix manipulations  
 subroutine packages. Minneapolis: Control Data.

Keyboard drill.

Multiple choice quiz construction.

Multivariate analysis package

With S. Wallace

Double negatives. Minneapolis: Control Data.

Exercises on the verb "to be".

LYMAN, ELISABETH R., Research Assistant Professor

#### Articles

PLATO makes learning Mickey Mouse. ROM (1:3) 34-9.

#### Computer Bibliography

Articles about the PLATO system. Minneapolis:  
 Control Data.

#### Computer Catalog

PLATO curricular materials, no. 6. Minneapolis:  
 Control Data.

MELLER, DAVID V., Specialist in Automated Education

#### Computer Lessons

Manipulating logical expressions. Minneapolis:  
 Control Data.

SHERWOOD, BRUCE A., Associate Professor and Assistant  
 Director, See: Loomis Laboratory of Physics.

SHERWOOD, JUDITH N., Specialist in Automated Education

#### Computer Sequences

Introduction to esperanto. Minneapolis: Control  
 Data.

#### Computer Lessons

Picture introduction to esperanto (part1).  
 Minneapolis: Control Data.

Picture introduction to esperanto (part 2).

Token solitaire.

SIEGEL, MARTIN A., Assistant Professor and Assistant  
 Director.

#### Articles

Computer-based education in prison schools.  
Journal of Educational Technology Systems (7:No.3)  
 239-56.

PLATO computer-based education for corrections.  
 American Journal of Correction (40:No.1) 6-37.

#### Computer Lessons

Corrective feedback paradigm. Minneapolis: Control  
 Data.

An example of the corrective feedback paradigm.

SILVER, DOROTHY J., Specialist in Automated Education

#### Computer Sequences

With L. Fillman, et al.

PLATO elementary reading curriculum. Minneapolis:  
 Control Data.

STEINBERG, ESTHER R., Senior Specialist in Automated  
 Education

#### Chapter in a Book

Critical decisions: an evaluation of a CAI  
evaluation. In Proceedings, 1978 conference of  
 the association for the development of computer-  
 based instructional systems, ed. by J. Hirschbuhl.  
 Bellingham, Washington: ADCIS, pp. 420-8.

#### Computer Lessons

Ask. Minneapolis: Control Data.

Guess my number.

Park your car.

TATSUOKA, KIKUMI K., Assistant Professor and Senior  
 Specialist in Automated Education

#### Chapter in a Book

Analysis of performance data on the PLATO system.  
In Computer/managed instruction system, ed. by T.  
 Sato. Tokyo: Association for Electronics and  
 Communication, pp. 138-57.

#### Computer Lessons

Determinants and matrix conversion. Minneapolis:  
 Control Data.

Eigenvalues and eigenvectors.

Introduction to matrices-simple operations.

Matrices and linear transformations.

Matrix multiplication.

## COORDINATED SCIENCE LABORATORY

ABRAHAM, JACOB A., Research Assistant Professor,  
Coordinated Science Laboratory; Assistant Professor  
of Electrical Engineering

## Articles

With G. Metzger

Roving diagnosis for high performance digital systems. Proceedings of the Conference on Information Sciences and Systems (17) 221-6.

With S. M. Thatte

A methodology for functional level testing of micro-processors. Proceedings of the 8th International Symposium on Fault-Tolerant Computing (8) 90-5.

With R. Nair and G. Metzger

On the detection of fault-free units in a system. Proceedings of the 16th Annual Allerton Conference on Communication, Control and Computing (16) 156.

Roving diagnosis: deterministic analysis of a scheme for system diagnosis. Proceedings of the 16th Annual Allerton Conference on Communication, Control and Computing (16) 155.

With R. Nair and S. M. Thatte

Efficient algorithms for testing semiconductor random access memories. IEEE Transactions on Computers (C-27) 572-6.

BAJOR, GYORGY, Visiting Research Professor, Coordinated Science Laboratory

## Articles

With C. E. Wickersham and J. E. Greene

Impulse stimulated "explosive" crystallization of sputter deposited amorphous (In,Ga) Sb films. Solid State Communication (27) 17-20.

CHIEN, ROBERT T., Director and Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

## Articles

On the use of deductive models for automatic generation of test program for analog circuits. Industry/Joint Services Automatic Test Conference and Workshop on Advanced Test Technology Management Acquisition (April) 100-5.

With T. N. Trick

A note on single fault detection in positive resistor circuits. IEEE Transactions on Circuits and Systems (CAS-25:No. 1) 46-8.

CHO, ALFRED Y., Visiting Research Professor, Coordinated Science Laboratory; Visiting Professor of Electrical Engineering

See Electrical Engineering

COLEMAN, PAUL D., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

See Electrical Engineering

CRUZ, JOSE B., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

## Articles

Leader-follower strategies for multilevel systems. IEEE Transactions on Automatic Control (AC-23, No. 2) 244-55.  
Stackelberg strategies for hierarchical control of large scale systems. Second Workshop on Hierarchical Control (June) 1-15.

With B. F. Gardner, Jr.

Feedback Stackelberg strategy for M-level hierarchical games. IEEE Transactions on Automatic Control (AC-23: No. 3) 489-91.

Well-posedness of singularly perturbed Nash games. J. Franklin Institute (306: No. 5) 355-74.

With S. P. Glankwamdee

Decentralized Stackelberg strategies for interconnected stochastic dynamic systems. Seventh Triennial World Congress of IFAC (May) 1017-23.

With B. Krogh

Design of sensitivity reducing compensators using observers. IEEE Transactions on Automatic Control (AC: No. 6) 1058-62.

With C. S. Padilla

Sensitivity adaptive feedback with estimation redistribution. IEEE Transactions on Automatic Control (AC-23: No. 3) 445-51.

Stochastic control of a discrete-time nonlinear system with noisy observation. Systems Science (4: No. 1) 35-41.

Output feedback SAFER control. Proceedings of the 1978 International Conference on Cybernetics and Society (November) 1076-80.

With P. Walsh

A sampled data equilibrium Stackelberg coordination scheme for the multicontroller problem. IEEE Transactions on Automatic Control (AC-23: No. 4) (August) 637-42.

With H. Khalil, B. F. Gardner, Jr., and P. V. Kokotovic

Reduced order modeling of closed-loop Nash games. Proceedings of the IRIA/IFAC Symposium on Systems Optimization and Analysis (December) 1-8.

DAVIDSON, EDWARD S., Research Associate Professor, Coordinated Science Laboratory; Associate Professor of Electrical Engineering

## Articles

With J. Emer

Control store organization for multiple stream pipelined processors. Proceedings of the 1978 International Conference on Parallel Processing (August) 43-48.

With B. Kumar

Performance evaluation of highly concurrent computer by deterministic simulation. Communications of the Association of Computing Machinery (November) 904-913.

DETEMPLE, THOMAS A., Research Associate Professor, Coordinated Science Laboratory; Associate Professor of Electrical Engineering

See Electrical Engineering

DOW, JOHN D., Research Professor, Coordinated Science Laboratory; Professor of Physics

See Physics

EHRLICH, GERT, Research Professor, Coordinated Science Laboratory; Professor of Mining and Metallurgy Engineering

#### Articles

With Kaj Stolt and John D. Wrigley

Thermodynamics of surface clusters - direct observation of  $\text{Re}_2$  on W(211). The Journal of Chemical Physics (69: No. 3) 1151-61.

GREENE, JOSEPH E., Research Associate Professor, Coordinated Science Laboratory; Associate Professor of Mining and Metallurgy; Associate Professor of Mechanical and Industrial Engineering

#### Articles

Optical spectroscopy for diagnostics and process control during glow discharge etching and sputter deposition. Journal of Vacuum Science and Technology (15) 1781.

With A. H. Eltoukhy

Ion bombardment enhanced diffusion during the growth of sputtered superlattice thin films. Applied Physics Letters (33) 343.

With J. L. Zilkko

The nature of the transition region formed between dc-biased sputtered TiC films and steel substrates. Surface Science (72) 109.

Growth of metastable  $\text{InSb}_{1-x}\text{Bi}_x$  thin films by multitarget sputtering. Applied Physics Letters (33) 234.

With C. E. Wickersham

The effect of substrate bias on electrical and optical properties of  $\text{In}_2\text{O}_3$  films grown by sputtering. Physics Status Solidi (47a) 329.

With B. R. Natarajan and F. Sequeda-Osoria

Sputtering of metal alloys containing second phase precipitates. Journal of Applied Physics (49) 417.

With C. E. Wickersham and C. Bajor

Impulse stimulated explosive crystallization of sputter deposited amorphous  $(\text{In,Ga})\text{Sb}$  films. Solid State Communications, (27) 17.

HADDAD, ABRAHAM H., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

#### Articles

With D. Altshuler

Near optimal smoothing for singularly perturbed linear systems. Automatica (14) 81-7.

With S. P. Au

Suboptimal sequential estimation-detection scheme for Poisson driven linear systems. IEEE Transactions (16) 95-113.

With A. V. Sebald

State estimation for singularly perturbed systems with uncertain perturbation parameter. IEEE Transactions on Automatic Control (AC-23) 464-9.

With J. K. Tugnait

Adaptive estimation in linear systems with unknown, Markovian noise statistics. Proceedings 12th Annual Conference on Information Sciences and Systems (March) 130-5.

A detection-estimation approach to state estimation in switching environments. Proceedings 12th Asilomar Conference on Circuits, Systems, and Computers (November) 260-4.

With P. K. Varshney

A one-bit memory receiver for channels with memory. IEEE Transactions on Aerospace and Electronic Systems (AES-14) 241-53.

A receiver with memory for fading channels. IEEE Transactions on Communications (COM-26) 278-83.

With H. K. Khalil and G. L. Blankenship

Parameter scaling and well-posedness of stochastic singularly perturbed control systems. Proceedings 12th Asilomar Conference on Circuits, Systems and Computers (November) 407-11.

HAAJ, IBRAHIM N., Visiting Research Assistant Professor Coordinated Science Laboratory; Visiting Assistant Professor, Department of Electrical Engineering

#### Chapters in Books

Diakoptics and block Elimination. In Proceedings of IEEE Power Engineering Society Summer Meeting, ed. by IEEE Power Engineering Society, New York, 564-7/1-6.

Sparsity considerations in network solution by tearing. In Proceedings of IEEE International Symposium on Circuits and Systems, ed. by IEEE Circuits and Systems Society, New York, 170-4.

With S. Skelboe

Time-domain analysis of piecewise-linear networks. In Circuit Theory and Design, ed. by C. S. Moschytz and J. Neirynck, St. Saphorin, Switzerland: Georgi 563-7.

With P. R. Bryant and M. Vlach

Interactive circuit simulation: the user oriented program WATAND. In Proceedings of the Fourth International Symposium on Computers, Electronics and Control, Toronto, Ontario, Canada (November) 283-9.

#### Articles

Formulation of multiport equations via block matrix elimination. Proceedings of the IEEE (66: October) 1275-7.

With D. J. Roulston, et. al.

Computer-aided analysis of nonlinear JFET amplifiers from device fabrication data. IEEE Journal of Solid-State Circuits (SC-13: April) 266-8.

HESS, KARL, Visiting Research Associate Professor, Coordinated Science Laboratory; Visiting Associate Professor, Department of Electrical Engineering

See Electrical Engineering

HUNSINGER, BILL, Research Associate Professor, Coordinated Science Laboratory; Associate Professor of Electrical Engineering

See Electrical Engineering

JACKSON, E. ATLEE, Research Professor, Coordinated Science Laboratory; Professor of Physics

See Physics

JENKINS, WILLIAM K., Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

#### Articles

Techniques for residue-to-analog conversion for residue encoded digital filters. IEEE Transactions on Circuits and Systems (CAS-25: No. 7) 555-62.

A highly efficient residue-combinatorial architecture for digital filters. Proceedings of the IEEE (66: No. 6) 700-2.

Techniques for residue-to-analog conversion for high data rate digital filtering. Proceedings of the 1978 IEEE International Conference on Acoustics, Speech, and Signal Processing (April ) 807-7.

A comparison of residue number multipliers and 2's-complement multipliers implemented by stored multiplication tables. Proceedings of the 1978 IEEE International Symposium on Circuits and Systems (May) 297-301.

Architectures for microprocessor-based adaptive digital filters. Proceedings of the 21st Midwest Symposium on Circuits and Systems (August) 148-52.

With C. K. Sutton and T. N. Trick

New structures for switched capacitor sampled data filters. Proceedings of the 21st Midwest Symposium on Circuits and Systems (August) 169-73.

With T. N. Trick and E. El-Masry

New realizations for switched capacitor filters. Proceedings of the 12th Annual Asilomar Conference on Circuits, Systems, and Computers (November) 694-8.

KLEIN, MILES V., Research Professor, Coordinated Science Laboratory; Professor of Physics

See Physics

KOKOTOVIC, PETAR V., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

#### Articles

With Joe H. Chow

Near-optimal feedback stabilization of a class of nonlinear singularly perturbed systems. SIAM Journal of Control and Optimization (16:No.5) 756-70.

Two-time-scale feedback design of a class of nonlinear systems. IEEE Transactions on Automatic Control (AC-23: No. 3) 438-43.

With Hassan K. Khalil

Control strategies for decision makers using different models of the same system. IEEE Transactions on Automatic Control (AC-23: No. 2) 289-98.

With Joe H. Chow and John J. Allemong

Singular perturbation analysis of systems with sustained high frequency oscillations. Automatica (14) 271-279.

LOOZE, DOUGLAS P., Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

#### Articles

With P. K. Houpt, N. R. Sandell, Jr., and M. Athans

On decentralized estimation and control with application to freeway ramp metering. IEEE Transactions on Automatic Control (23) 268-75.

MAYEDA, WATARU, Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

#### Books

With M. Ito

Theory and Application of Graphs. Ohm Publishers: Tokyo, Japan, 214 pp.

#### Articles

With G. Peponides

Determination of component values under limited measurements. Proceedings of 12th Asilomar Conference on Circuits, Systems and Computers (November) 761-4.

With M. E. Van Valkenburg

Reduced-order modeling through successive applications. Proceedings of 12th Annual Asilomar Conference on Circuits, Systems and Computers (November) 754-7.

With M. E. Van Valkenburg

An approximation procedure for large-scale systems. Proceedings of 21st Midwest Symposium on Circuits and Systems (August) 500-04.

With H. C. Kim and D. L. Day

A graphical analysis of livestock production and waste management systems. Transactions of the American Society of Aeronautical Engineers (21: No. 4) 749-53.

With S. Shinoda and K. Onaga

Graph theoretic properties of a pseudo-incidence matrix with an application to network diagnosis. Proceedings of 12th Asilomar Conference on Circuits, Systems and Computers (November)

MC ELIECE, ROBERT, Research Professor, Coordinated Science Laboratory; Professor of Mathematics

See Mathematics

MEDANIC, JURAJ, Visiting Research Associate Professor, Coordinated Science Laboratory

#### Articles

Closed-loop Stackelberg strategies in linear quadratic problems. IEEE Transactions on Automatic Control (AC-23: No. 4) 632-7.

On stabilization and optimization by output feedback. Proceedings of 12th Asilomar Conference on Circuits, Systems and Computers (November) 412-16.

With D. Radojevic

Multilevel Stackelberg strategies in linear-quadratic systems. J. Optimization Theory and Applications (24: No. 3) 485-97.

With W. R. Perkins and E. Tse

Reduced order modeling using the QL algorithm. Proceedings of the Midwest Symposium on Circuits and Systems (August) 481-5.

With E. C.Y. Tse and W. R. Perkins

A new approach to model reduction based on system output information structure. Proceedings of the 7th World Congress of IFAC (May) 600-08.

Generalized Hessenberg transformations for reduced-order modeling of large-scale systems. International Journal of Control (27:No. 4) 493-512.

METZ, GERNOT, Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

#### Articles

Alternating logic: self-checking logic using redundancy in time. Proceedings of the 1978 Conference on Information Sciences and Systems (March) 272-9.

With J. A. Abraham

Roving diagnosis for high performance digital systems. Proceedings of the 1978 Conference on Information Science and Systems (March) 221-6.

With D. A. Reynolds

Fault detection capabilities of alternating logic. IEEE Transactions on Computers (December) 1093-8.

With J. E. Smith

Strongly fault secure logic networks. IEEE Transactions on Computers (June) 491-9.

With S. E. Woodard

Self-checking alternating logic: sequential machine design. Proceedings of the 5th Annual Computer Architecture Symposium (April) 114-22.

MITTRA, RAJ, Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

See Electrical Engineering

MORKOÇ, HADIS, Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

See Electrical Engineering

PERKINS, WILLIAM R., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

#### Articles

With Ü. Özgüner

Optimal control of multilevel large scale systems. International Journal of Control (28) 967-80.

With J. K. Sharp

A new approach to dynamic input-output models. Automatica (January) 77-9.

POOR, HAROLD V., Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

See Electrical Engineering

PREPARATA, FRANCO P., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

#### Articles

New parallel sorting schemes. IEEE Transactions on Computers (C-27: No. 7) 669-73.

With V. A. Di Euliis

Spectrum shaping with alphabetic codes with finite autocorrelation sequence. IEEE Transactions on Communications (COM-26) 4.

With D. S. Johnson

The densest hemisphere problem. Theoretical Computer Science (6) 93-107.

With D. T. Lee

The all-nearest neighbor problem for convex polygons. Information Processing Letters (7: No. 4) 189-92.

With D. E. Muller

Finding the intersection of two convex polyhedra. Theoretical Computer Science (7: No. 11, Part 2) 217-36.

With D. V. Sarwate

An improved parallel processor bound in fast matrix inversion. Information Processing Letters (7: No. 3) 148-50.

With M. R. Garey, et. al.

Triangulating a simple polygon. Information Processing Letters (7: No. 4) 175-9.

PURSLEY, MICHAEL B., Research Associate Professor, Coordinated Science Laboratory; Associate Professor of Electrical Engineering

See Electrical Engineering

RAU, B. RAMAKRISHNA, Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

#### Chapters in Books

Levels of representations of programs and the architecture of universal host machines. In Proceedings of the Eleventh Annual Workshop on Microprogramming, New York 67-79.

ROUSE, SANDRA H., Information Scientist, Coordinated Science Laboratory

#### Articles

With W. B. Rouse

The effect of parameter uncertainties on the predictions of a library network model. Journal of the American Society for Information Science (29: No. 4) 180-6.

With M. E. Williams

Online use of data bases in Illinois. Illinois Libraries (60: No. 4) 429-35.

With W. B. Rouse and M. P. Slate

Application of a library network model: two case studies within the Illinois library and information network. Illinois Libraries (60: No. 5) 454-8.



ROUSE, WILLIAM B., Research Associate Professor,  
Coordinated Science Laboratory; Associate Professor  
of Mechanical and Industrial Engineering

See Mechanical and Industrial Engineering

SARWATE, DILIP V., Research Assistant Professor,  
Coordinated Science Laboratory; Assistant Professor  
of Electrical Engineering

See Electrical Engineering

SAUER, PETER W., Research Assistant Professor,  
Coordinated Science Laboratory; Assistant Professor  
of Electrical Engineering

See Electrical Engineering

SCHLANSKER, MICHAEL S., Research Assistant Professor,  
Coordinated Science Laboratory; Assistant Professor  
of Electrical Engineering

#### Chapter in a Book

With D. E. Atkins

A complexity result on a pipeline processor design  
problem. High Speed Computer and Algorithm Organi-  
zation, ed. by Kuck, Lawrie, and Sameh, New York:  
Academic Press,

STREETMAN, BEN G., Research Professor, Coordinated  
Science Laboratory; Professor of Electrical  
Engineering

#### Chapter in a Book

With R. A. Milano, et. al.

Planar ion-implanted avalanche photodiodes in  
GaAs. In Gallium Arsenide and Related Compounds,  
ed. by C. M. Wolfe, Bristol: Institute of Physics  
Conference, Serial No. 45, 411-19.

#### Articles

With A. J. Rosa

Characterization of the edge emission in Na doped  
ZnSe. Journal of Luminescence (16) 191-200.

With M. J. Helix and K. V. Vaidyanathan

Properties of Be-implanted planar GaAs p-n  
junctions. IEEE Journal of Solid-State Circuits  
(SC-13) 426-9.

With M. Y. Tsai, et. al.

Anomalous migration of fluorine and electrical  
activation of boron in  $BF_2^-$  implanted silicon.  
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RF plasma deposition of silicon nitride layers.  
Thin Solid Films (55) 143-8.

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Diffusion studies of Be-implanted GaAs by SIMS and  
electrical profiling. Solid State Communication  
(25) 1003-8.

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Journal of Electronics Material (7) 547-58.

Annealing studies of Be-doped GaAs grown by  
molecular beam epitaxy. Applied Physics Letters  
(33) 127-129.

SWAMY, SOWMITRI, Research Assistant Professor,  
Coordinated Science Laboratory; Assistant Professor  
of Electrical Engineering

#### Articles

With J. E. Savage

Space-time tradeoffs for the FFT algorithm.  
IEEE Transactions on Information Theory (IT-24:No. 5)  
563-8.

TRICK, TIMOTHY N., Research Professor, Coordinated  
Science Laboratory; Professor of Electrical  
Engineering

#### Articles

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analog circuits. IEEE ELECTRO/78 Convention  
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With R. T. Chien

A note on single fault detection in positive  
resistor circuits. IEEE Transactions on Circuits  
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With J. L. Levy

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recursive digital filters. Proceedings of the  
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With A. A. Sakla

A new algorithm for the fault analysis and tuning  
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(May) 156-60.

With C. K. Sutton and W. K. Jenkins

New structures for switched capacitor sampled  
data filters. Proceedings of the 21st Midwest  
Symposium on Circuits and Systems (August) 169-73.

With W. K. Jenkins and E. El-Masry

New realizations for switched capacitor filters.  
Proceedings of the 12th Annual Asilomar Conference  
on Circuits, Systems and Computers (November)  
694-8.

WALTZ, DAVID L., Research Associate Professor,  
Coordinated Science Laboratory; Associate Professor  
of Electrical Engineering

#### Chapters in Books

A parallel model for low-level vision. In  
Computer Vision Systems, ed. by A. R. Hanson and  
E. M. Riseman, New York: Academic Press, 175-86.

On the interdependence of language and perception.  
In Theoretical Issues in Natural Language Proce-  
sing-2, ed. by D. L. Waltz, New York: Association  
of Computing Machinery, 149-56.

#### Articles

An English language question answering system for  
a large relational database. Communications of the  
Association of Computing Machinery (21: No. 7)  
526-39.

WAX, NELSON, Research Professor, Coordinated Science  
Laboratory; Professor of Electrical Engineering

See Electrical Engineering

WEBER, LARRY F., Visiting Research Assistant Professor, Coordinated Science Laboratory; Visiting Assistant Professor of Electrical Engineering; Visiting Research Assistant Professor, Computer-Based Education Research Laboratory

#### Articles

With G. S. Weikart

A real time curve tracer for the ac plasma display panel. Proceedings of the 1978 Biennial Display Research Conference (IEEE Publication No. 78CH1323 SED) 73-9.

WILLIAMS, MARTHA E., Research Professor, Coordinated Science Laboratory; Professor of Library Science

#### Edited Book

Annual review of information science and technology, vol. 13. White Plains, New York: Knowledge Industry Publications, Inc., 386 pp.

#### Chapters in Books

Data bases, computer-readable. In The ALA Yearbook: A Review of Library Events 1977, ed. by Robert Wedgeworth (3). Chicago, Illinois: American Library Association, 109-12.

The impact and future of online retrieval as they relate to the clientele. In The Online Revolution in Libraries, ed. by A. Kent and T. J. Galvin, New York: Marcel Dekker, Inc., 149-56.

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With Ted Brandhorst

Machine-readable data bases: copyright status. Bulletin of the American Society for Information Science (4: No. 4) 31.

With Sandra H. Rouse

On-line use of data bases in Illinois. Illinois Libraries (60: No. 4) 429-435.

With Ted Brandhorst

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#### DAIRY SCIENCE

BAUMRUCKER, CRAIG R., Assistant Professor

#### Chapter in a Book

Calcium transport in lactation. In Lactation: A comprehensive treatise, ed. by B. L. Larson. New York: Academic Press, pp. 463-73.

#### Article

With P. A. Pocius

$\gamma$ -Glutamyl transpeptidase in lactating mammary secretory tissue of cow and rat. Journal of Dairy Science (61) 309-14.

BRYANT, MARVIN P., Professor

#### Article

Cellulose digesting bacteria from human feces. American Journal of Clinical Nutrition (31) S113-15.

CLARK, JIMMY H., Associate Professor

#### Articles

With C. L. Davis

Energy and protein needs of lactating dairy cows. Illinois Research (20:3) 14-15.

With R. W. Prange and C. L. Davis

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## COORDINATED SCIENCE LABORATORY

ABRAHAM, JACOB A., Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

See Electrical Engineering

AHUJA, NARENDRA, Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

See Electrical Engineering

BROWN, DONNA J., Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

See Electrical Engineering

CHIEN, ROBERT T., Director and Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

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EHRLICH, GERT, Research Professor, Coordinated Science Laboratory; Professor of Metallurgy and Mining

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EL MASRY, EZZ I., Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

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MERLIN, ROBERTO D., Research Associate

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MORKOC, HADIS, Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

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See Electrical Engineering

PERKINS, WILLIAM R., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

See Electrical Engineering

POOR, H. V., Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

See Electrical Engineering

PREPARATA, F. P., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

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ROUSE, W. B. Research Associate Professor, Coordinated Science Laboratory; Associate Professor of Mechanical and Industrial Engineering

See Mechanical and Industrial Engineering

SARMATE, D. V., Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

See Electrical Engineering

SAUER, PETER W., Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

See Electrical Engineering

SLOTOW, H. GENE, Research Associate Professor, Coordinated Science Laboratory; Associate Professor of Electrical Engineering

See Electrical Engineering

SMITH, LINDA, Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Library Science

See Library Science

STILLMAN, G. E., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

See Electrical Engineering

STOLT, KAJ, Visiting Research Assistant Professor, Coordinated Science Laboratory; Visiting Assistant Professor, Metallurgy and Mining

See Metallurgy and Mining Engineering

STREETMAN, BEN G., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

See Electrical Engineering

SWAMY, SOWMITRI, Research Assistant Professor, Coordinated Science Laboratory; Assistant Professor of Electrical Engineering

See Electrical Engineering

TRICK, TIMOTHY N., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

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VAN VALKENBURG, MAC, Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

See Electrical Engineering

VERDEYEN, JOSEPH T., Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

See Electrical Engineering

WALTZ, DAVID L., Research Associate Professor, Coordinated Science Laboratory; Associate Professor of Electrical Engineering

See Electrical Engineering

WAX, NELSON, Research Professor, Coordinated Science Laboratory; Professor of Electrical Engineering

See Electrical Engineering

WILLIAMS, MARTHA E., Research Professor, Coordinated Science Laboratory; Professor of Library Administration

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