

PAPERS BY BELL LABORATORIES AUTHORS

COMPUTING/MATHEMATICS

- Abramovici M., Breuer M. A., **Fault-Diagnosis in Synchronous Sequential-Circuits Based on an Effect Cause Analysis.** IEEE Comput 31(12):1165-1172, 1982.
- Brown D. J., Baker B. S., Katseff H. P., **Lower Bounds for Online Two-Dimensional Packing Algorithms.** ACT Inform 18(2):207-225, 1982.
- Ding Z. D., Hwang F. K., **Minimizing a Combinatorial Function.** Siam J Alg 3(4):523-528, 1982.
- Finkel R. A., Fishburn J. P., **Improved Speedup Bounds for Parallel Alpha-Beta Search (Letter).** IEEE Patt. A 5(1):89-92, 1983.
- Flatto L., **A Geometric Problem in Approximation-Theory.** J Approx Th 36(4):321-327, 1982.
- Golumbic M. D., Rotem D., Urrutia J., **Comparability-Graphs and Intersection Graphs.** Discr Math 43(1):37-46, 1983.
- Irani K. B., Chen K. W., **Minimization of Interprocessor Communication for Parallel Computation.** IEEE Comput 31(11):1067-1075, 1982.
- Kasami T., Lin S., Wei V. K., Yamamura S., **Graph Theoretic Approaches to the Code Construction for the 2-User Multiple-Access Binary Adder Channel.** IEEE Info T 29(1):114-130, 1983.
- Lagarias J. C., **Best Simultaneous Diophantine Approximations. 2. Behavior of Consecutive Best Approximations.** Pac J Math 102(1):61-88, 1982.
- Melici J. A., **The BX-25 Certification Facility.** Comput Netw 6(5):319-329, 1982.
- Nair V. N., **Q-Q Plots with Confidence Bands for Comparing Several Populations.** Sc J Stat 9(4):193-200, 1982.

ENGINEERING

- Anthony P. J., **Alteration of Diffusion Profiles in Semiconductors Due to p-n Junctions.** Sol ST Elec 25(12):1171-1177, 1982.
- Bohrer M. P., **Diffusional Boundary-Layer Resistance for Membrane-Transport.** Ind Eng F 22(1):72-78, 1983.
- Chen P. C., Pavlidis T., **Segmentation by Texture Using Correlation (Letter).** IEEE Patt A 5(1):64-69, 1983.
- Cheng J., Boyd G. D., Westerwick E. H., **Reduction of Threshold Voltage for Bistable Liquid-Crystal Switching Using a Priming Voltage.** IEEE Device 29(12):1853-1856, 1982.
- Damen T. C., Duguay M. A., Miller B. I., Lin C., **Single-Mode Semiconductor-Laser Optically Pumped by an Injection-Laser.** Electr Lett 19(1):3-4, 1983.
- Emkey W. L., Bogert G. A., **Multiport Polarization Monitor.** Optics Lett 8(2):94-95, 1983.
- Engelmaier W., Frisch D. C., **Injection-Molding Shapes New Dimensions for Boards.** Electronics 55(25):155-158, 1982.
- Falcone R. W., Bokor J., **Dichroic Beam Splitter for Extreme-Ultraviolet and Visible Radiation.** Optics Lett 8(1):21-23, 1983.
- Fichtner W., Cooper J. A., Tretola A. R., Kahng D., **A Novel Buried-Drain DMOSFET Structure.** IEEE Device 29(11):1785-1791, 1982.
- Fork R. L., Shank C. V., Hirlimann C., Yen R., Tomlinson W. J., **Femtosecond White-Light Continuum Pulses.** Optics Lett 8(1):1-3, 1983.
- Forrest S. R., **Photo-Diodes for Long-Wavelength Communication-Systems.** Laser Focus 18(12):81+, 1982.
- Gilbert J. A., et al., **The Application of Fiber Optics to Remote Speckle Metrology Using Incoherent-Light.** Opt Laser E 3(3):183-195, 1982.
- Glass A. M., Liao P. F., Olson D. H., Humphrey L. M., **Optical Metal-Oxide Tunnel Detectors with Microstructured Electrodes.** Optics Lett 7(12):575-577, 1982.

Gloge D. C., Citation Classic—Multimode Theory of Graded-Core Fibers. *CC/Eng Tech* 1983(4):22, 1983.

Herbst D., Bosch M. A., Lemons R. A., Tewksbury S. K., Harrison T. R., PMOS Transistors Fabricated in Large-Area Laser-Crystallized Si on Silica. *Electr Lett* 19(1):12-13, 1983.

Hu E. L., Tennant D. M., Howard R. E., Jackel L. D., Grabbe P., Vertical Silicon Membrane Arrays Patterned With Tri-Level E-Beam Resist. *J Elec Mat* 11(5):883-888, 1982.

Iannuzzi M., Kozakiewicz R. P., Bias Humidity Performance and Failure Mechanisms of Nonhermetic Aluminum SICs in an Environment Contaminated with SO₂. *IEEE Compon* 5(4):345-354, 1982.

Kaminow I. P., Eisenstein G., Stulz L. W., Dentai A. G., Lateral Confinement InGaAsP Superluminescent Diode at 1.3 μm. *IEEE J Q El* 19(1):78-82, 1983.

Kavehrad M., Optimum QPSK Transmission Over Bandlimited Channels With Cascaded Nonlinearities. *Proc. Thirteenth Ann. Pittsburg Conf.* 13, Pt 1:153-161, 1982.

Kavehrad M., Phase-Noise Effects on QPSK Carriers in Burst Transmission. *IEE J Comm Radars Sig Proc* 129 Pt F No 5:366-372, 1982.

Keller H. N., Significant Features of Solder Connections to Gold-Plated Thin-Films. *IEEE Compon* 5(4):408-419, 1982.

Kuo J. M., Thiel F. A., Study of Deep Level in Bulk P-InP By Admittance Spectroscopy. *Electr Lett* 19(2):41-43, 1983.

Macklin J. J., Wood O. R., Silfvast W. T., New Recombination Lasers in Li, Al, Ca, and Cu in a Segmented Plasma-Device Employing Foil Electrodes. *IEEE J Q El* 18(11):1832-1835, 1982.

Marcuse D., Computer-Model of an Injection-Laser Amplifier. *IEEE J Q El* 19(1):63-73, 1983.

McFee J. H., Swartz R. G., Archer V. D., Finegan S. N., Feldman L. C., A Quantitative Study of the Relationship Between Interfacial Carbon and Line Dislocation Density in Silicon Molecular-Beam Epitaxy. *J Elchem So* 130(1):214-216, 1983.

Pearsall T. P., Hendel R., Oconnor P., Alavi K., Cho A. Y., Selectively-Doped Al_{0.48}In_{0.52}As/Ga_{0.47}In_{0.53}As Heterostructure Field-Effect Transistor. *Elec Dev L* 4(1):5-8, 1983.

Peterson G. E., Paek U. C., Electrical Transmission-Lines as Models For Soliton Propagation in Infrared Fibers. *P Soc Photo* 320:62-68, 1982.

Sanders J. V., A Three-Dimensional Dynamic Analysis of a Towed System. *Ocean Eng* 9(5):483-499, 1982.

Sargent M., et al., Quantum-Theory of Laser and Optical-Bistability Instabilities. *Optics Lett* 8(2):76-78, 1983.

Schwarz S. A., Thornber K. K., Mobility Degradation due to the Gate Field in the Inversion Layer of MOSFETS—Comment. *Elec Dev L* 4(1):11-12, 1983.

Sessler G. M., et al., Non-Destructive Laser Method for Measuring Charge Profiles in Irradiated Polymer-Films. *IEEE Nucl S* 29(6):1644-1649, 1982.

Wiesenfeld J. M., Chraplyvy A. R., Stone J., Burrus C. A., Measurement of Very High-Speed Photodetectors with Picosecond InGaAsP Film Lasers. *Electr Lett* 19(1):22-24, 1983.

MANAGEMENT/ECONOMICS

Fishburn P. C., Time Preference. *Int Econ R* 23(3):677-694, 1982.

Hakansson N. H., Kunkel J. G., Ohlson J. A., Sufficient and Necessary Conditions for Information to have Social Value in Pure Exchange. *J Finance* 37(5):1169-1181, 1982.

Ordover J. A., Panzar J. C., On the Non-Linear Pricing of Inputs. *Int Econ R* 23(3):659-675, 1982.

Rassenti S. J., Smith V. L., Bulfin R. L., A Combinatorial Auction Mechanism for Airport Time Slot Allocation. *Bell J Econ* 13(2):402-417, 1982.

Vinod H. D., Maximum-Entropy Measurement Error-Estimates of Singular Covariance Matrices in Undersized Samples. *J Economet* 20(2):163-174, 1982.

PHYSICAL SCIENCES

- Allen S. J., Allyn C. L., Cox H. M., Derosa F., Mahoney G. E., **Dispersion of the Saturated Current in GaAs from DC to 1200 GHz.** *Appl Phys L* 42(1):96-98, 1983.
- Baumgart H., Leamy H. J., Celler G. K., Trimble L. E., **Grain-Boundary Diffusion in Polycrystalline Silicon Films on SiO₂.** *J Physique* 43(NC1):363-368, 1982.
- Becker R. S., Golovchenko, J. A., Patel J. R., **X-Ray Evanescent-Wave Absorption and Emission.** *Phys Rev L* 50(3):153-156, 1983.
- Behringer R. P., et al., **Heat-Transport and Temporal Evolution of Fluid-Flow Near the Rayleigh-Benard Instability in Cylindrical Containers.** *J Fluid Mec* 125(DEC):219-258, 1982.
- Bondybey V. E., Schwartz G. P., English J. H., **Laser Vaporization of Alloys—Laser-Induced Fluorescence of Heteronuclear Metal Clusters.** *J Chem Phys* 78(1):11-15, 1983.
- Boolchand P., Grothaus J., Phillips J. C., **Broken Chemical Order and Phase-Separation in Ge₂Se_{1-x} Glasses.** *Sol St Comm* 45(2):183-185, 1983.
- Botineau J., Stolen R. H., **Effect of Polarization on Spectral Broadening in Optical Fibers.** *J Opt Soc* 72(12):1592-1596, 1982.
- Brand H., Cross M. C., **Explanation of Flow Dissipation in ³He-B (Letter).** *Phys Rev L* 49(26):1959, 1982.
- Bridges T. J., Bergman J. G., Chraplyvy, A. R., **Broad-Band Infrared Generation by Stimulated Raman-Scattering in Liquid Filled Fibers.** *P Soc Photo* 320:60-61, 1982.
- Bruck M. A., et al., **Extended X-Ray Absorption Fine-Structure (EXAFS) Spectroscopic Analysis of 6-Mercaptopurine Riboside Complexes of Platinum(II) and Palladium(II) (Review or Bibliog.).** *ACS Symp S* 1983(209):245-262, 1983.
- Capasso F., Tsang W. T., Bethea C. G., Hutchinson A. L., Levine B. F. **New Graded Band-Gap Picosecond Phototransistor.** *Appl Phys L* 42(1):93-95, 1983.
- Capasso F., Tsang W. T., Williams G. F., **New Very Low-Noise Multilayer and Graded-Gap Avalanche Photodiodes for the 0.8 to 1.8 μ m Wavelength Region.** *P Soc Photo* 340:50-55, 1982.
- Celler G. K., Trimble L. E., **Microelectronics Applications of Deposited Si Films Recrystallized from the Melt.** *J Physique* 43(NC1):353-362, 1982.
- Celler G. K., Robinson M., Lischner D. J., **Seeded Recrystallization of Thick Polysilicon Films on Oxidized 3-in Wafers.** *Appl Phys L* 42(1):99-101, 1983.
- Cheng J., Lemons R. A., **Topography Induced Preferential Crystallization of Thermally Grown Silicon Dioxide Films.** *J Elec Mat* 12(1):61-69, 1983.
- Cowens J. W., Stevie F. A., Alderfer J. L., Hansen G. E., Pendyala L., Creaven P. J., **Synthesis and Identification of Derivatives of a Platinum Containing Complex.** *Int J Mass* 48(FEB):177-180, 1983.
- Chu S. N. G., **Elastic Interaction Between a Screw Dislocation and Surface Crack.** *J Appl Phys* 53(12):8678-8685, 1982.
- Craighead H. G., Howard R. E., Jackel L. D., Mankiewich P. M., **10-nm Linewidth Electron-Beam Lithography on GaAs.** *Appl Phys L* 42(1):38-40, 1983.
- Cross M. C., **Phase Dynamics of Convective Rolls.** *Phys Rev A* 27(1):490-498, 1983.
- Dahlberg S. C., **Photo-Voltage Studies of Organic Semiconductor Interfaces.** *Appl Surf S* 14(1):47-55, 1982.
- Ebeling K. J., Coldren L. A., Miller B. I., Rentschler J. A., **Single-Mode Operation of Coupled-Cavity GaInAsP-InP Semiconductor-Lasers.** *Appl Phys L* 42(1):6-8, 1983.
- English A. T., Kinsbron E., **Electromigration-Induced Failure by Edge Displacement in Fine-Line Aluminum-0.5-Percent Copper Thin-Film Conductors.** *J Appl Phys* 54(1):268-274, 1983.
- English A. T., Kinsbron E., **Electromigration Transport Mobility Associated with Pulsed Direct-Current in Fine-Grained Evaporated Al-0.5-Percent-Cu Thin-Films.** *J Appl Phys* 54(1):275-280, 1983.
- Flamm D. L., Wang D. N. K., Maydan D., **Multiple-Etchant Loading Effect and Silicon Etching in ClF₃ and Related Mixtures.** *J Elchem So* 129(12):2755-2760, 1982.

- Franey J. P., A Novel System for Atmospheric Corrosion Experiments. *Corros Sci* 23(1):1-8, 1983.
- Freeman R. R., Jopson R. M., Bokor J., Bucksbaum, P., Laser Generation of Light in the Extreme Ultraviolet and Soft-X-Ray Regime. *AIP Conf Pr*1982(94): 491-494, 1982.
- Gibbs H. M. et al., Room Temperature Optical Bistability and Self-Defocusing in Semiconductor Etalons. *Appl Phys B* 29(3):171-172, 1982.
- Guélin M., Cernicharo J., Linke R. A., Detection of HC^{17}O^+ in Sagittarius 82. *Astrophys J* 263(2):L89-L93, 1982.
- Hebard A. F., Nakahara S., Structural Phase-Transitions of Indium Indium Oxide Thin-Film Composites. *Appl Phys L* 41(12):1130-1132, 1982.
- Heffner W. R., Berreman D. W., Switching Characteristics of a Bistable Cholesteric Twist Cell. *J Appl Phys* 53(12):8599-8606, 1982.
- Heller A., Aharon-Shalom E., Bonner W. A., Miller B., Hydrogen-Evolving Semiconductor Photo-Cathodes—Nature of the Junction and Function of the Platinum Group Metal Catalyst. *J. Am Chem S* 104(25):6942-6948, 1982.
- Hellman M. Y., Bowmer T., Taylor G. N., Determination of Gel Content and Percent Gel in Radiation-Cured Polyvinyl Chloride—Cross-linking Monomer Coatings by Combined GPC-LC Techniques. *Macromolec* 16(1):34-38, 1983.
- Hutton R. S., Roth H. D., Spin-Density Distribution and Geometric Isomerism in Triplet Carbenes. *J Am Chem S* 104(26):7395-7399, 1982.
- Hwang J. C. M., Temkin H., Brennan T. M., Frahm R. E., Growth of High-Purity GaAs-Layers by Molecular-Beam Epitaxy. *Appl Phys L* 42(1):66-68, 1983.
- Jayaraman A., Diamond Anvil Cell and High-Pressure Physical Investigations (Review or Bibliog.) *Rev M Phys* 55(1):65-108, 1983.
- Jelinski L. W., Dumais J. J., Watnick P. I., Bass S. V., Shepherd L., C-13-NMR of ABS in the Solid-State—Characterization and Relaxation Studies. *J Pol Sc PC* 20(12):3285-3296, 1982.
- Johari G. P., Glass-Transition and Molecular Motions in the Glassy State of a Nematic Liquid. *Phil Mag B* 46(6):549-564, 1982.
- Kazarinov R. F., Nordland W. A., Wagner W. R., Temkin H., Manchon D. D., Near-Equilibrium LPE Growth of $\text{In}_{1-x}\text{Ga}_x\text{As}_y\text{P}_{1-y}$ Lattice Matched to InP. *J Cryst Gr* 60(2):235-238, 1982.
- Kelso S. M., Aspnes D. E., Pollack M. A., Nahory R. E., Optical-Properties of $\text{In}_{1-x}\text{Ga}_x\text{As}_y\text{P}_{1-y}$ From 1.5 to 6.0 eV Determined by Spectroscopic Ellipsometry. *Phys Rev B* 26(12):6669-6681, 1982.
- Kolodner P., Tyson J. A., Remote Thermal Imaging with 0.7- μm Spatial-Resolution Using Temperature-Dependent Fluorescent Thin-Films. *Appl Phys L* 42(1):117-119, 1983.
- Kramer L., Benjacob E., Brand H., Cross M. C., Wavelength Selection in Systems Far From Equilibrium. *Phys Rev L* 49(26):1891-1894, 1982.
- Kuo C. Y., Vieira M. M. F., Kerl R. J., Patel C. K. N., Observation of Delta-V-4 Vibrational Overtone Transitions in Solid HCP Para-Hydrogen. *Phys Rev L* 50(4):256-259, 1983.
- Lake G., The Rotation of Elliptical Galaxies—An Application of the Theory of Tidal Torques. *Astrophys J* 264(2):408-412, 1983.
- Lamola A. A., Fluorescence Studies of Protoporphyrin Transport and Clearance. *Act der-Ven*1982(S100):57-66, 1982.
- Lee T. P., Recent Development in Light-Emitting-Diodes (LEDs) for Optical Fiber Communications-Systems. *P Soc Photo* 340:22-31, 1982.
- Leung S. Y., Schumaker N. E., Simulation of Slider-Induced Convection in Horizontal LPE Slider System. *J Cryst Gr* 60(2):421-433, 1982.
- Lin C., Lee T. P., Burrus C. A., Picosecond Frequency Chirping and Dynamic Line Broadening in InGaAsP Injection-Lasers Under Fast Excitation. *Appl Phys L* 42(2):141-143, 1983.
- Lovinger A. J., Microstructure and Unit-Cell Orientation in Alpha-Polypropylene. *J Pol Sc PP* 21(1):97-110, 1983.
- Mayer T. M., Fisanick G. J., Eichelberger, T. S., Deposition of Chromium Films by Multi-Photon Dissociation of Chromium Hexacarbonyl. *J Appl Phys* 53(12): 8462-8469, 1982.

- Meiboom S., Sammon M., Brinkman W. F., **Lattice of Disclinations—The Structure of the Blue Phases of Cholesteric Liquid-Crystals.** *Phys Rev A* 27(1):438-454, 1983.
- Mills A. P., **Line-Shape Effects in the Measurement of the Positronium Hyperfine Interval.** *Phys Rev A* 27(1):262-267, 1983.
- Myers P. C., Linke R. A., Benson P. J., **Dense Cores in Dark Clouds. 1. Co Observations and Column Densities of High-Extinction Regions.** *Astrophys J* 264(2):517-537, 1983.
- Nassau K., **Material Dispersion Considerations For Infrared Fibers.** *P Soc Photo* 320:43-48, 1982.
- Obryan H. M., Yan M. F., **Second-Phase Development in Ba-Doped Rutile.** *J Am Ceram* 65(12):615-619, 1982.
- Odagaki T., Lax M., **Some Exact Properties of Hopping Conduction.** *Phys Rev B* 26(12):6480-6489, 1982.
- Oron M., Tamari N., **High-Power Single-Mode InGaAsP Lasers Fabricated by Single Step Liquid-Phase Epitaxy.** *Appl Phys L* 42(2):139-141, 1983.
- Patterson G. D., **Photon-Correlation Spectroscopy of Bulk Polymers (Review or Bibliog.).** *Adv Polym S* 48:125-159, 1983.
- Phillips J. C., **Reversible and Sensitizable Photostructural Transformations in Chalco-genide Alloy Glasses.** *J Non-Cryst* 51(3):301-304, 1982.
- Phillips J. C., **Spectroscopic and Morphological Structure of Tetrahedral Oxide Glasses (Review or Bibliog.).** *Sol St Phys* 37:93-171, 1982.
- Pleiner H., Brand H., **Light-Scattering in Nematic Liquid-Crystals in the Presence of Shear-Flow.** *J Phys Lett* 44(1):L23-L31, 1983.
- Rana V. V. S., Nelson T. J., Lecraw R. C., Blank S. L., **Preparation and Properties of V-Substituted Garnet-Films for Ion-Implanted 1.0-Micron Bubble-Devices with Improved High-Temperature Propagation.** *J Appl Phys* 53(12):9093-9097, 1982.
- Reagor B. T., Kelley D. F., Huchital D. H., Rentzepis P. M., **Kinetics of Intramolecular Electron-Transfer in Binuclear (NC)₅Fe^{II}-CN-Co^{III}(chelate) Complexes by Pico-second Absorption-Spectroscopy.** *J Am Chem S* 104(26):7400-7403, 1982.
- Reynolds C. L., Jr. and Tamargo M. C., **Liquid Phase Epitaxial Growth of (Al, Ga)As Double-Heterostructure Laser Material in a Sapphire Boat.** *J Appl Phys* 53(12):9217-9219, 1982.
- Roth H. D., Schilling M. L., Hutton R. S., Truesdale E. A., **Photoinduced Electron-Transfer Reactions—The Radical Cations of Methano-Bridged Paracyclophanes.** *J Am Chem S* 105(2):153-157, 1983.
- Raine G. P., Schaefer H. F., Haddon R. C., **The Dimers of Carbon-Monoxide and Carbon Monosulfide—Chemically Bound Triplet Electronic Ground-States.** *J Am Chem S* 105(2):194-198, 1983.
- Schmidt P. F., **Contamination-Free High-Temperature Treatment of Silicon or Other Materials.** *J Elchem So* 130(1):196-199, 1983.
- Schubert R., Tompkins H. G., **Effects of Exposure to Vapors of Saturated Salt Aqueous-Solutions.** *IEEE Compon* 5(4):425-430, 1982.
- Shah J., Pinczuk A., Stormer H. L., Gossard A. C., Wiegmann W., **Electric-Field Induced Heating of High Mobility Electrons in Modulation-Doped GaAs-Al-GaAs Heterostructures.** *Appl Phys L* 42(1):55-57, 1983.
- Shank C. V., Yen R., Hirlimann C., **Time-Resolved Reflectivity Measurements of Femtosecond-Optical-Pulse Induced Phase-Transitions in Silicon.** *Phys Rev L* 50(6):454-457, 1983.
- Snyder L. C. et al., **Computations to Model 3-Center Bonds in Hydrogenated Amorphous-Silicon.** *Phys Rev B* 26(12):6727-6733, 1982.
- Stavola M., Patel J. R., Kimerling, L. C., Freeland P. G., **Diffusivity of Oxygen in Silicon at the Donor Formation Temperature.** *Appl Phys L* 42(1):73-75, 1983.
- Stocker H. J., Aspnes D. E., **Surface Chemical-Reactions on In_{0.53}Ga_{0.47}As.** *Appl Phys L* 42(1):85-87, 1983.
- Stone J., Whalen M. S., **Index of Refraction Dispersion of Normal-Type and Paratype InP Between 0.95 and 2.0 eV.** *Appl Phys L* 41(12):1140-1142, 1982.
- Temkin H., Hwang J. C. M., **Undoped, Semi-Insulating GaAs-Layers Grown by Molecular-Beam Epitaxy.** *Appl Phys L* 42(2):178-180, 1983.

- Tumpkins H. G., Sharma S. P., **The Interaction of Imidazole, Senzimidazole and Related Azoles with a Copper Surface.** *Surf Int An* 4(6):261-266, 1982.
- Tsang W. T., Dixon M., Dean B. A., **The Characterization and Functional Reliability of 45 Mbit/s Optical Transmitters Containing MBE-Grown Lasers.** *IEEE J Q El* 19(1):59-62, 1983.
- Tsui D. C., Gossard A. C., Dolan G. J., **Radiation Effects on Modulation-Doped GaAs-Al_xGa_{1-x}As Heterostructures.** *Appl Phys L* 42(2):180-182, 1983.
- Tung R. T., Gibson J. M., Poate J. M., **Formation of Ultrathin Single-Crystal Silicide Films on Si—Surface and Interfacial Stabilization of Si-NiSi₂ Epitaxial Structures.** *Phys Rev L* 50(6):429-432, 1983.
- Vandenberg J. M., Hamm R. A., **An In Situ X-Ray Study of Phase Formation in Cu-Al Thin-Film Couples.** *Thin Sol Fi* 97(4):313-323, 1982.
- Varma G. M., Dynes R. C., Banavar J. R., **Thermally Created Tunnelling States in Glasses (Letter).** *J Phys C* 15(35):1221-1225, 1982.
- Walker L. R., **Interpretation of the Fe₅₇ Isomer-Shift (Citation Classics).** *CC/Phy Chem*1983(7):20, 1983.
- Wertheim G. K., Phillips J. C., Bridenbaugh P. M., **A Limit on the Site Inequivalence in G-As₂Se₃.** *Sol St Comm* 45(2):179-181, 1983.
- White J. C., Henderson D., **Tuning and Saturation Behavior of the Anti-Stokes Raman Laser.** *Optics Lett* 8(1):15-17, 1983.
- Wilson T., Sheppard C. J., **Imaging with Finite Values of Fresnel Number.** *J Opt Soc* 72(12):1639-1641, 1982.
- Wolfe A., **ULF Geomagnetic Power Near L = 4. 7. A Conjugate Area Study of Power Controlled by Solar-Wind Quantities.** *J Geo R-S P* 87(NA12):425-431, 1982.
- Wrobel J., Takahashi K., Lannoy G., Cook J. M., Bertz S. H., Honkan V., **Stereocontrolled Synthesis of (+/-)-Modhephene via the Weiss Reaction (Letter).** *J Org Chem* 48(1):139-141, 1983.
- Yan M. F., Rhodes W. W., **Effects of Cation Contaminants in Conductive TiO₂ Ceramics.** *J Appl Phys* 53(12):8809-8818, 1982.
- Zussman A., Eger D., Oron M., Szapiro S., Shachna A., Hans B., **Lung-Wavelength PbSnTe-PbTeSe Lattice-Matched Single-Heterostructure Lasers Grown by LPE.** *IEE Proc-I* 129(6):203-208, 1982.

SOCIAL AND LIFE SCIENCES

- Clark W. C., Carroll J. D., Yang J. C., Pruzansky S., **Perceptual Dimensions of Thermal Pain—A Multidimensional-Scaling Approach (Review or Bibliog.).** *Adv Pain R* 5:871-876, 1982.
- Desarbo W. S., Hausman R. E., Lin S., Thompson W., **Constrained Canonical Correlation.** *Psychometri* 47(4):489-516, 1982.
- Fishburn P. C., **Foundations of Risk Measurement. 2. Effects of Gains on Risk.** *J Math Psych* 25(3):226-242, 1982.
- Goddard C. T., **Debunking the Learning-Curve.** *IEEE Compon* 5(4):328-335, 1982.
- Julesz B., Kropfl W., **Binocular Neurons and Cyclopean Visually Evoked-Potentials in Monkey and Man.** *Ann Ny Acad* 388(Jun):37-44, 1982.
- Rosenbaum D. A., Kornblum S., **A Priming Method for Investigation the Selection of Motor-Responses.** *Act Psychol* 51(3):223-243, 1982.
- Rosenthal N. E., Lewy A. J., Wehr T. A., Kern H. E., Goodwin F. K., **Seasonal Cycling in a Bipolar Patient.** *Psychiat R* 6(1):25-31, 1983.
- Starr S. J., Thompson C. R., Shute S. J., **Effects of Video Display Terminals on Telephone Operators.** *Human Fact* 24(6):699-711, 1982.

SPEECH/ACOUSTICS

- Hurd H. L., **Clipping Degradation in a System Used to Detect Time-Periodic Variance Fluctuations.** *J Acoust So* 72(6):1827-1830, 1982.

Karim M. R., An Investigation of Delta Modulation of Speech for Mobile Radio. IEEE Veh T 31(4):158-165, 1982.

Umeda N., Kahn D., Frequency of Occurrence of Two-Word and Three-Word Sequences in English (Letter). J Acoust So 72(6):2031-2033, 1982.

