

**Books:**

Principles of physics / Houghton`Mifflin (1978) / with James P. Hurley

Principi di Fisica / Nicola Zanichelli, Bologna (1982) (Italian translation of above)

Twentieth Century Physics / Faculty Publishing (1988)

Statistical mechanics: proceedings of the Third University of California Conference on Statistical Mechanics, Davis, CA / North Holland (1988)

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**Articles:**

A Method of Calculating Ground-state Properties of Many Particle Systems Using Reduced Density Matrices / PhD Thesis, New York University (1963)

Reduction of the N-Particle Variational Problem / J. Math. Phys. v5, p1756 (1964) / with Jerome K. Percus

Ground-State Density Matrices of Quantum Fluids / Physics of Fluids, v9, p1764 (1966)

Hamiltonian Path-Integral Methods / Rev. Mod. Phys. v38, p483 (1966)

A Lower Bound to the Pressure in One-dimensional Systems / Crocker Nuclear Laboratory Reports, v76, p1 (1967)

Variational Calculations with Density Matrices / Crocker Nuclear Laboratory Reports, v84, p1 (1967)

Properties of the 2-Matrix Due to the Integer Character of Occupation Numbers / Conf. on Reduced Density Matrices with Applications to

Physical and Chemical Systems, Queens University (1968)

Angular Symmetry of the 2-Matrix / Physical Review, v172, p173 (1968)

Covariant Hamiltonian dynamics with interactions / Physical Review, v167, p1143 (1968)

Particle-Hole Matrix: Its Connection with the Symmetries and Collective Features of the Ground State / J. Math. Phys., v10, p1855 (1969) / with Mitja Rosina

Reduced density matrices of energy eigenstates / J. of Math. Physics, v10, p1761 (1969) / with Mitja Rosina, Jerome K. Percus, & Louis J. Kijewski

Dilatation Symmetry of Classical Electrodynamics with Charged Particles of Finite Mass / Physical Review D, v1, p1524 (1970)

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The Variational Calculation of Reduced Density Matrices / J. of Computational Physics, v18 p300 (1975) / with M. Rosina

The Variational Approach to the Two-Body Density Matrix / J. of Math. Physics, v16, p868 (1975) / with M. V. Mihailovic and M. Rosina

A density matrix variational calculation for atomic Be / Int. J. of Quantum Chemistry, v10, p495 (1976) / with Mario A. Fusco

Density matrix methods in orbital optimization for MCSCF calculations /  
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Inequalities for fermion density matrices / J. of Quantum Chemistry, v13,  
p125 (1978) / with J. Michael Hannon

The Application of Group Theory to Generate New Representability  
Conditions for Rotationally Invariant Density Matrices / J. of Math.

Physics, v20, p1366 (1979) / with R. M. Erdahl, B. Golli, & M. Rosina

Symmetry properties of nonlinear barrier coefficients / J. of Stat. Physics,  
v29, p33 (1982) / with James P. Hurley

Reciprocity conditions for a quasilinear uniform barrier / Physical Review  
A, v26, p3525 (1982) / with James P. Hurley

Generalization of the Onsager reciprocity theorem / Physical Review  
Letters, v48, p1575 (1982) / with James P. Hurley

Symmetry relations for the conductivity tensor / Physical Review A, v10,  
p1103 (1982) / with James P. Hurley

Variational Principle for Nonlinear Steady Flow / J. of Nonequilibrium  
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Nonequilibrium ensemble dynamics / Physical Review A, v35, p1350  
(1987) / with James P. Hurley & Randy Harris

Stochastic models of crystal growth in two dimensions / Physical Review  
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Physics, v64, p579 (1991) / with A. C. Levi and M. Kotrla  
Growth Modes and Models for Smooth and Rough Surfaces / Physica  
Scr., T49B, p593 (1991) / with A. C. Levi and M. Kotrla  
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