

PROGRAM

9th West Coast Statistical Mechanics Conference, Los Alamos National Laboratory, Thursday–Friday, 23–24 June 1983

Anomalous Adsorption of Ions at an Electrode

Douglas Henderson, Jorge Barojas and Lesser Blum

Three-Body Contributions to the Transport Properties of a Moderately Dense Gas

Daniel G. Friend and James C. Rainwater

The Structure of a Liquid Under Shear: Non-Newtonian Effects

James C. Rainwater and Howard J. M. Hanley

Lorentz-Gas Shear Viscosity Via Boltzmann's Equation and Nonequilibrium Molecular Dynamics

W. G. Hoover and A. J. C. Ladd

Strongly Coupled Plasma Equation of State from Monte Carlo Simulations and an Improved Hyper-Netted Chain Equation

H. E. DeWitt and F. J. Rogers

A Pseudo-Classical Integral Equation Method for Partially Ionized Plasmas

F. J. Rogers

Lognormality of Gradients of Diffusive Scalars in Homogeneous, Two-Dimensional Mixing Systems

A. R. Kerstein and William T. Ashurst

Excitation Dynamics at Finite Temperatures

Katja Lindenberg and Bruce J. West

Effective Spherical Potentials for Molecular Fluid Thermodynamics

J. D. Johnson, M. S. Shaw and B. L. Holian

The Three-Particle Distribution Function of Fluids

Elijah Johnson

The Virial Series for Parallel Hard Squares

A. M. Lockett, R. L. Bivins, and M. S. Wertheim

Approximate Chemical Potential for Lattice Gas with Many Interactions:
Application to Hydrides

Peter M. Richards

Lattice-Gas Model with Surface Order–Disorder Phase Transitions

James S. Walker and Stephen J. Kennedy

A Kinetic Theory Calculation of the Depolarized Light Scattering R
Parameter

R. G. Cole, D. K. Hoffman and G. T. Evans

Time-Dependent Effects in Nucleation Near the Critical Point

M. Gitterman and Y. Rabin

Paths to the Tricritical Point

Roland Lindh, Ian M. Pegg, Charles M. Knobler, and Robert L. Scott

Theta Point (“Tricritical”) Region Behavior for a Polymer Chain: Transi-
tion to Collapse

A. L. Kholodenko and K. F. Freed

Order Parameters in Phase Transitions in Liquid Crystals

F. Dowell

Statistical Thermodynamics of Micelle Formation

Brian Owenson and Lawrence R. Pratt

Equilibrium Polymerization in One Dimension: Exact Solution by Transfer
Matrix and Renormalization Group

John C. Wheeler and Pierre M. Pfeuty

Nonequilibrium Kinetic Theory of Polymer Solutions and Melts

N. L. Johnson

Nonequilibrium Brownian Dynamics Simulation of Polymer Systems in
Steady Shear Flow

Paul J. Dotson

Statistical Mechanics of Multiphase Flow

A. L. Graham and J. Weist

Monte Carlo Calculations of Point Vortex Entropy

L. J. Campbell

Bicriticality in the Polymerization of Chains and Rings

John C. Wheeler, R. G. Petschek and Pierre Pfeuty

An Analogy Between the Collapsed Polymer and the Liquid Drop Model of Atomic Nucleus

A. L. Kholodenko and K. F. Freed

High-Strain-Rate Plastic Flow

Anthony J. C. Ladd and *W. G. Hoover*