

## **FIELDS OF INTEREST OF BOARD OF EDITORS**

**Dr. Berni J. Alder**

Statistical mechanics, classical equilibrium and transport theory, molecular dynamics, machine computation

**Dr. Igor T. Aleksanyan**

Physical theory of reliability, thin film physics, physics of surfaces of the solid state

**Professor Thor Bak**

Statistical mechanics, chemical kinetics, transport, collective methods

**Professor A. V. Balakrishnan**

Control and information theory

**Professor A. Bellemans**

Equilibrium statistical mechanics

**Professor Frank Buff**

Statistical mechanics, surface phenomena, chemical kinetics

**Dr. E. Richard Cohen**

Numerical analysis, kinetic theory, stochastics, plasmas, reactor physics

**Professor Morrel H. Cohen**

Application of stochastics to pattern recognition, information and communication theory, life processes, macroeconomics, many-body physics

**Professor John S. Dahler**

Statistical mechanics, quantum and classical mechanics, kinetic theory

**Professor Harry L. Frisch**

Theory of liquids, high polymers, foundations of kinetic theory of gases

**Dr. Robert P. Futrelle**

Nonequilibrium phenomena, fluctuations, electromagnetic problems, theoretical and developmental biology

**Professor Julian H. Gibbs**

Applications of statistical physics to molecular biology, nature of the glass transition in supercooled liquids and polymers, properties of water in aqueous solutions of biochemical significance, structure and function of biological membranes

**Professor Harold Grad**

Statistical mechanics, kinetic theory, foundations, mathematical methods, plasma physics

**Professor Melville S. Green**

Statistical mechanics of irreversible processes, theory of simple liquids, graph theory, theory of critical phenomena, fluctuation theory, ergodic theory

**Dr. John M. Hammersley**

Monte Carlo methods, stochastic processes

**Professor Michael D. Intriligator**

Mathematical optimization, economic theory, econometrics

**Professor Leo P. Kadanoff**

Classical and quantum statistics, fluctuations, transport, urban problems

**Professor Thomas Kailath**

Statistical communication, control and data processing

**Professor Rudolf E. Kalman**

Control theory, mathematical system theory, probability

**Professor Taro Kihara**

Chemical physics related to intermolecular forces in gases, liquids, and solids; astrophysics, cosmology, and general theory of

relativity; transport phenomena in high-temperature plasmas

**Professor Tjalling C. Koopmans**

Economic theory, optimal growth theory, econometrics

**Professor Ryogo Kubo**

Classical and quantum statistics, irreversibility, fluctuation and correlation collective methods

**Professor Joel L. Lebowitz**

Statistical mechanics of equilibrium and nonequilibrium processes, biomathematics, biophysics

**Professor Shneior Lifson**

Statistical biophysics, linear chain biopolymers

**Professor Daniel L. McFadden**

Econometrics and communication theory

**Professor William C. Meecham**

Fluid dynamics, stochastics, random processes in general

**Professor Elliott W. Montroll**

Statistical mechanics, theory of fluids, stochastics

**Professor Dr. A. Münster**

General equilibrium statistical mechanics (except ergodic theory and relativity), theory of fluctuations, theory of liquids and liquid mixtures, critical phenomena

**Dr. Howard Reiss, Editor-in-Chief**

Statistical thermodynamics, nucleation, polymers, life processes, chemical kinetics

**Dr. Robert J. Rubin**

Brownian motion theory, random walk theory, statistical mechanics of one- and two-dimensional systems, cooperative

phenomena and phase transitions, properties of random media, statistical mechanics of many-body systems (nondiagrammatic), statistical mechanics of polymer systems

**Professor Kurt E. Shuler**

Stochastics, chemical kinetics, relaxation processes

**Professor Arnold J. F. Siegert**

Equilibrium statistical mechanics (applications of methods of theory of random variables and random functions to problems in equilibrium statistical mechanics), random processes (Brownian motion, circuit noise, with emphasis on applied mathematics aspect not on physical sources of noise)

**Dr. Jerome Spanier**

Monte Carlo methods, numerical analysis, transport theory

**Dr. Frank H. Stillinger, Jr.**

Classical and quantum statistics

**Dr. Georgio Szegö**

Abstract theory of dynamical systems, theory of stability, numerical analysis

**Dr. Dirk ter Haar**

Classical and quantum statistics, kinetic theory, foundations, statistical physics in astrophysics

**Dr. Myron Tribus**

Any aspect of inference involving the principle of maximum entropy, applications of Bayesian inference

**Professor A. V. Voronel**

Phase transitions, properties of liquids, properties of magnetic materials

**Professor Lotfi Zadeh**

System and computer sciences