

Program

A history of stochastic processes.

Elliot W. Montroll, University of Maryland

From classical dynamics to continuous time random walks.

Robert Zwanzig, University of Maryland

Random walk model for $1/f$ noise.

Mark Nelkin, Alan Harrison, Cornell University

Diffusion in random one-dimensional systems.

W. Schneider, J. Bernasconi, Brown Boveri Research Center

Diffusion and relaxation in disordered systems.

B. Movaghar, Hirst Research Center

Multiple scattering, CPA, and CTRW treatment of hopping conductivity.

Melvin Lax, T. Odagaki, City University of New York and Bell Laboratories

Analytic continuation method for estimating effective parameters for multicomponent random walks.

George Papanicolau, Courant Institute

Random walks on inhomogeneous lattices.

P. W. Kasteleyn, W. Th. F. den Hollander, University of Leiden

Laser speckle as a two-dimensional random walk.

Richard Barakat, Harvard University

A random walk model of multiphase dispersion in porous media.

Muhammad Sahimi, L. E. Scriven, H. T. Davis, University of Minnesota

Random walks and renormalization theory: The central limit theorem as a fixed point.

P. B. Visscher, University of Alabama

Nonexponential decay in relaxation phenomena.

A. K. Rajagopal, Louisiana State University

K. L. Ngai, R. W. Rendell, S. Teitler, Naval Research Laboratory

From random to self-avoiding walks.

Cyril Domb, Bar-Ilan University

Self-avoiding walks with geometrical constraints.

S. G. Whittington, University of Toronto

Stochastic processes originating in deterministic microscopic dynamics.

Joel Lebowitz, Rutgers University

Stochastic flows in integral and fractal dimensions and morphogenesis.

John J. Kozak, University of Notre Dame

Stochastic stick boundary conditions.

Irwin Oppenheim, Massachusetts Institute of Technology

N. G. van Kampen, Rijksuniversiteit Utrecht

Stochastic aspects of biological locomotion.

Ralph Nossal, National Institutes of Health

Phase transitions in a four-dimensional random walk with application to medical statistics.

Ora E. Percus, Jerome K. Percus, Courant Institute

Protein folding as a random walk.

Nobuhiro Gō, Kyushu University

Conformational space renormalization group treatment of polymer excluded volume.

Karl Freed, James Franck Institute

Cell renormalization for self-avoiding random walks and lattice animals.

Fereydoon Family, Emory University

Single and multiple random walks on random lattices: Excitation trapping and annihilation simulations.

R. Kopelman, P. Argyrakis, J. Hoshen, J. S. Newhouse, University of Michigan

Correlation factors for diffusion via the vacancy mechanism in crystals.

Masahiro Koiwa, Shunya Ishioka, Tohoku University

Diffusion in concentrated lattice gases.

Klaus W. Kehr, Institut für Festkörperforschung

Random walks on random lattices with traps.

V. Halpern, Bar-Ilan University

Energy transfer as a random walk with long-range steps.

Alexander Blumen, Technische Universität

G. Zumofen, ETH-Zentrum

Rotational diffusion in solid polymers.

J. T. Bendler, General Electric

On the mean motion and some statistical properties of a quasi-periodic observable in a fermion-boson model.

F. T. Hioe, University of Rochester

Monte Carlo renormalization group calculation for polymers.

H. Muthukumar, Illinois Institute of Technology

Trapping of excitation in the average T -matrix approximation.

D. L. Huber, University of Wisconsin

Diffusion-controlled reactions.

R. Cukier, Michigan State University

Transport processes in disordered solids.

Kurt E. Shuler, University of California, San Diego

Equilibrium folding and unfolding pathways for a model protein.

Robert L. Jernigan, S. Miyazawa, National Institutes of Health

Physics of migration of ligands in biomolecules.

Peter Hanggi, Polytechnic Institute of New York

Master equation techniques for exciton motion, capture, and annihilation.

V. M. Kenkre, University of Rochester

Random walk to and interaction with an impurity.

Peter M. Richards, Sandia National Laboratory

Monte Carlo simulation of electronic transport in disordered media.

M. Silver, University of North Carolina

H. Baessler, G. Schoenherr, Universitat Marburg

Leon Cohen, Hunter College

Renormalization group approach to random walks on disordered lattices.

Jonathan Machta, University of Maryland

On the dynamics of excitations in disordered systems.

S. Mukamel, Weizmann Institute of Science

Approach to asymptotic diffusive behavior in strongly disordered lattices.

Itzhak Webman, Exxon Research and Engineering Co.

Kinetics of adsorption on stepped surfaces.

C. H. Wu, RCA/David Sarnoff Research Center

Elliot W. Montroll, University of Maryland

Fractal and lacunary stochastic processes.

Barry D. Hughes, University of Minnesota

Elliot W. Montroll, University of Maryland

Michael F. Shlesinger, La Jolla Institute

Generalized average T -matrix approximations for transport on a disordered lattice.

Gregory Korzeniewski, Richard Friesner, Robert Silbey, Massachusetts Institute of Technology