Record Nr. UNISA996203163303316 Stochastic processes in chemical physics [[electronic resource] /] / **Titolo** edited by K.E. Shuler New York, : Interscience, 1969 Pubbl/distr/stampa **ISBN** 1-282-36259-3 0-470-14360-6 0-470-14400-9 Descrizione fisica 1 online resource (408 p.) Collana Advances in chemical physics;; v. 15 ShulerKurt E <1922-> (Kurt Egon) Altri autori (Persone) Disciplina 519.2 Stochastic processes Soggetti Chemistry, Physical and theoretical Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Stochastic Processes in Chemical Physics; CONTENTS; Probabilistic and Dynamic Approaches to the Theory of Stochastic Processes: I. Introduction; II. Probabilistic Preliminaries; III. Master Equations; IV. Langevin Equation; Quantum States and Dissipative Processes; I. Introduction; II. Einstein's Theory of Spontaneous Emission in Unstable Particles: III. Mechanisms of Dissipation: IV. Probability Amplitudes and Quantum Time; V. Quantum States of Finite Lifetime; VI. Kinetic Equations: Feynman Diagrams and Correlation Diagrams; VII. **Boltzmann Approximation** VIII. Physical Particles and EntropyIX. Kinetic Equations and Quantum States: X. Conclusions and Perspectives: Relaxed Motion in Irreversible Molecular Statistics; I. The Basic Enigma; II. The Basic Macroscopic Functions; III. The Boundary Forces; IV. The information Content of Probability Statements; V. Heuristic Introduction to Relaxed Motion; VI. Plan of Explicit Calculation; VII. Solution in a Siniplitied Case: "Vestiginal Forces"; VIII-IX. Calculation of the Information Integrals; X. The Variational Principle; XI. The Linear Approximation; XII. Generalization Thermal Fluctuations in Nonlinear Systemsl. Introduction: The Linear Case; II. The Nonlinear Problem; III. The Master Equation; IV. Expansion

of the Master Equation; V. Additional Remarks; VI. The Microscopic Description; VII. The Microscopic Equations of Motion; Error Bounds

and Spectral Densities; I. Introduction; II. Properties of Spectral Densities; III. Error Bounds for Averages of Spectral Densities; A. Error Bounds for the Response to a Damped Harmonic Perturbation; B. Error Bounds for Cumulative Distribution; C. Error Bounds for Second-Order Perturbation Energies

IV. Extrapolation Methods for Spectral DensitiesV. Summary and Discussion; A Stochastic Theory of Line Shape; I. Introduction; II. Random Frequency Modulation; III. Two, Simple Examples; a. Two State Jump Modulation; b. Gaussian Modulation; IV. Collapse of an NMR Multiplet; V. Low Field Spin Resonance; VI. Spectrum of Excitations to a Doublet with a Random Modulation; VII. Random Stark Modulation of a Hydrogen Atom; VIII. Line Shape of Mossbauer Spectra; IX. Concluding Remarks; A Stochastic Model for Neutron Scattering by Simple Liquids; I. Model Calculations

II. Scattering from H2 in Liquid ArgonFluctuations in Autocorrelation Functions in Diffusing Systems; I. Introduction; II. Definitions; III. Method; IV. Results; A. Harmonically Bound Particle; B. Particle in a Box; C. Plane Rotor; D. Spherical Rotor; V. Relaxation Times; VI. Discussion; Stochastic Theory of Chemical Rate Processes; I. Introduction; II. Random Walk Model of Unimolecular Decomposition; III. Exactly Solvable Elementary Reactions; IV. Selected Applications; A. Kinetics of Reactant Isolation; B. Reaction Kinetics on Linear Lattices with Neighbor Effects

C. Kinetics of Photochemical Reactions in Nucleic Acid Derivatives

Sommario/riassunto

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