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Statistical Physics And Chaos In Fusion Plasmas (Nonequilibrium Problems In The Physical Sciences And Biology)



Synopsis

Papers from twenty-nine of the world's leading scientists investigate the statistical properties of nonlinear dynamical systems, emphasizing their relation to the problem of plasma confinement. A powerful, new diagrammatic perturbation theory is presented for a first principles calculation of the Clump Kinetic equation, and for the first time, detailed calculations and experimental considerations describe the practical consequences of these correlations. Unique to this book is the collection of works on the problem of long-lived correlations in phase space of the Vlasov Poisson system. A new method of computing Lyapunov exponents from experimental data, and a method for calculating the splitting of periodic orbits in conservative systems are developed.

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