



# **The Statistical Theory of Non-Equilibrium Processes in a Plasma: International Series of Monographs in Natural Philosophy, Vol. 9**

*Yu L Klimontovich*

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
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The Statistical Theory of Non-equilibrium Processes in a Plasma covers the modern statistical theory of non-equilibrium processes in a plasma by a unified method, proceeding from the microscopic equations. The book discusses Maxwell equations for slow and fast processes; magnetohydrodynamic equations; microscopic equations for a plasma; and equations with a self-consistent field (Vlasov equations). The text then describes correlation and spectral function; kinetic equations for a plasma; and Landau equations. It also examines the kinetic equations and expressions for spectral functions when the radiation by plasma waves is taken into account; and the hydrodynamic description of processes in a plasma. Physicists and students taking courses in mechanics and mathematics will find the book invaluable.

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