NEW BOOKS

Collective phenomena in current-carrying plasma (Kollektivnye yavleniya v tokonesushchej plazme)

by Volkov, E.D., Perepelkin, N.F., Suprunenko, V.A., Sukhomlin, E.A., published by Nauk. dumka, Kiev, 1978, paperback, 188 pp, 106 illustrations, 4 tables, bibliography: pp.171-186 (304 titles), price: 1.85 roubles.

The monograph presents an analysis of collective phenomena, anomalous resistance and thermal conductivity of current-carrying plasma. Particular attention is paid to a systematization and critical evaluation of experimental research carried on in various laboratories throughout the world, and to the determination of the phenomenological laws governing the evolution of physical processes in specific experimental systems. It discusses possible mechanisms of experimentally observed transfer phenomena and compares the main theoretical conclusions with experimental results.

Intended for scientific workers concerned with plasma physics and controlled nuclear fusion, and also for advanced-course students of physics departments.