



Collected Papers of P.L. Kapitza: Volume 2: 1938- 64 v. 2

Peter L. Kapitza

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Collected Papers of P. L. Kapitza brings together the collected papers of Soviet physicist P. L. Kapitza in areas such as the viscosity of liquid helium below the λ -point; the Zeeman and Paschen-Back effects in strong magnetic fields; the influence of friction forces on the stability of high-speed rotors; heat transfer in helium II; and the formation of sea waves by the wind. Kapitza's other papers explore heat transfer in a two-dimensional turbulent flow; dynamical stability of a pendulum when its point of suspension vibrates; and the hydrodynamic theory of lubrication in the presence of rolling.

This volume is comprised of 25 chapters and begins with an analysis of Kapitza's research on the viscosity of liquid helium below the λ -point, followed by his studies on the Zeeman and Paschen-Back effects in strong magnetic fields; liquefaction of air at low pressures; heat transfer and superfluidity in helium II; and the flow of thin viscous fluid layers under the action of a constant volume force, taking into account the surface tension. A pendulum with a vibrating suspension is also described, along with heat conductivity and diffusion in liquid medium under periodic flow conditions; the nature of ball-lightning; and symmetric electric oscillations of a perfectly conducting hollow cylinder of finite length.

This book will be helpful to physicists and physics students.

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