

THE EQUATIONS OF VORTEX
RELATIVISTIC HYDRODYNAMICS
OF SUPERFLUID TWO-CONDENSATE
SYSTEMS IN VIEW OF THE INTERACTION
OF CONDENSATES

S. I. Vilchynskyi

Taras Shevchenko Kyiv University, Faculty of Physics
(6, Academician Glushkov Prosp., Kyiv 03127, Ukraine)

S u m m a r y

Allowing for dissipative processes, we derive the equations of vortex motion of relativistic superfluid two-condensate systems and solved them by taking into account the effect of reciprocal drag of superfluid motions.