

Erratum: Brillouin Scattering from Crystals in the Hydrodynamic Region

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Page 173: In the line following Eq. (2.13) the word "optical" should replace the word "static."

Page 174: The third equation after (2.20) is Eq. (2.21).

Page 175: Equation (2.23') should read $\eta(\omega) = \eta/(1+i\omega\tau) = \bar{\mu}(\omega)/i\omega$. At the beginning of the third line following (2.23'), replace η/τ by $\eta\omega^2\tau$; in the fifth line, replace μ' by η/τ ; finally, in the last line, replace $\mu'(0)$ by $\bar{\mu}(\omega)$.

Page 190: In the second term on the rhs of Eq. (3.90') replace $D_2 v_a$ by $D_1 v_a^2$ in the numerator and D_2 by D_1 in the denominator.

Page 191: In Eq. (3.90''), multiply the lhs by M/ρ_0^2 .

Page 192: In Eqs. (3.93) and (3.93'), replace $v^2/3/$

by $(v^2/3)/$; also, Footnote 59a should read "... we need not only consider ..."

Page 194: Multiply the rhs of Eqs. (3.103), (3.105), and (3.107) by ρ_0/M , ρ_0^2/M , and ρ_0 , respectively.

Page 202: In Eq. (B1) the imaginary part should be divided by 2. Equation (B1) is an approximation for $\omega^2 = v_{II}^2 k^2 - i\omega\Gamma(k)$. Equation (B3) should read $\omega^2 = k^2(v_{II}^2 - i\omega\alpha_{II})$.

Page 201: There is a sharp distinction between the condensate (the number of ^4He atoms in the ground state) and the superfluid density ρ_s . In the two-fluid model, one operationally defines ρ_s as the ratio of matter current to the gradient of the phase of the condensate wave function. In Appendix B, we unfortunately often use the term "condensate" when we mean the "superfluid density."