Errata


Eq. (3) should read
\[ E = |E_{0,\text{inc}}| C_0 (l_1/r)^{\beta_1}. \]

In eq. (7) \( \omega_s^3 \) should be replaced with \( \omega_s^3 \).

In eq. (11) \( |\overline{\text{Av}_{\text{st}}^i}|_{\text{surf}} \) should read \( |\overline{\text{Av}_{\text{st}}^i}|_{\text{surf}}^2 \).

In eqs. (11) and (16) \( |E_{s1}|^2 \) should be replaced with \( |E_{0s1}|^2 \). Below eq. (11) one should read \( E_{0s1} \) instead of \( E_{s1} \).

In eq. (16) \( C_0 \) should be replaced with \( C_0^\ast, \beta/2 \) with \( B/2 \), and \( \alpha/r \) with \( a/r \). Below eq. (16) \( C \sim 1 \) and \( \beta \sim 1 \) should be replaced with \( C_0 \sim 1 \) and \( \beta_1 \sim 1 \).

In the third line following eq. (12) “reversible sign” should read “changeable sign”.

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In eq. (2) the nonlinear term \( au_x^2 u_{xx} \) has to be with the positive sign. Then the case \( \alpha > 0 \) considered in the paper corresponds, as usual, to a self-focusing nonlinearity.

Localization of acoustic waves due to nonlinear properties of the surface, which has been predicted in the paper, may be considered in the framework of different models, including discrete ones. For example, in a particular limit the similar result follows from the model analysed by Yu.A. Kosevich [Phys. Lett. A 146 (1990) 525].

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Our discussion requires more accuracy. We did not indicate that defined in the paper \( l \) is a length connected only with localization (backward scattering) and not the real mean-free path. The latter is
\[ l = k^2 / D (2d^2 + k^2) \]
(in model II, \( d = d_e \)). Of course, it is \( l_f \) that corresponds to the total one-particle life-time. As has been shown, for the diagonal disorder optical absorption is strongly affected by forward scattering. The wings of this absorption are therefore well described by the Lorentzian curve of a width determined mainly by the contribution \( 4DE^2/k^2 \) from forward scattering which is seen from eqs. (14).

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(i) The plus (+) sign on the second line of eq. (5) should be replaced with an equals (=) sign.

(ii) The commutator brackets in eq. (7) should be replaced with anticommutator curly brackets.

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