

### Errata:—Acoustic Resonator Interferometer

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MR. E. G. WITTING of this laboratory has kindly drawn my attention to the errors noted below leading to corrections in several equations. Fortunately, these corrections do not significantly change the values of velocity or of absorption coefficients deduced from experiment, but they do change the deduced values of reflection coefficients, the new values departing from unity by almost exactly twice as much as do the values deduced by means of the published equations.

In Part I, Eqs. (12) and (13) should read, respectively:

$$P_x = \frac{[e^{-\alpha x} - \gamma^2 e^{-\alpha(4r-x)}] \cos \omega x/v + \gamma[e^{-\alpha(2r-x)} - e^{-\alpha(2r+x)}] \cos \omega(2r-x)/v}{1 - 2\gamma e^{-2r\alpha} \cos 2r\omega/v + \gamma^2 e^{-4r\alpha}}, \quad (12)$$

$$Q_x = \frac{[e^{-\alpha x} + \gamma^2 e^{-\alpha(4r-x)}] \sin \omega x/v + \gamma[e^{-\alpha(2r-x)} + e^{-\alpha(2r+x)}] \sin \omega(2r-x)/v}{1 - 2\gamma e^{-2r\alpha} \cos 2r\omega/v + \gamma^2 e^{-4r\alpha}}. \quad (13)$$

These equations lead to obvious changes in Eqs. (19) and (20) of the same paper, and in Eqs. (3), (4), (14), (16), (17), (18), (20), and (21) of Part II. In particular, Eq. (14), Part II, becomes,  $P_m = (1 + \gamma e^{-2r\alpha}) / (1 - \gamma e^{-2r\alpha})$  and Eq. (16),  $P_m = 1 / (r\alpha + \beta/2)$ , approximately. For  $\beta$  should be substituted  $\beta/2$  in Eq. (17), and Eq. (18) should read  $S' = 2S/\beta$ . The values of  $P$  and  $Q$  used in Eq. (19) are obtained from (12) and (13) above, putting  $x = \text{zero}$ .

With expectation that these corrections would be included in another paper of this series, they were privately circulated among interested correspondents. Further delay in their publication, however, seems undesirable.