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Corrections to our Paper

**“Waves in Materials with Memory III, Thermodynamic Influences
on the Growth and Decay of Acceleration Waves”**

in this *Archive*, Volume 19, 266–298 (1965).

(1) Our footnote at the bottom of page 279 should be corrected to read as follows:

RANKINE's solution is discussed by HAYES [12], p. 45. If in that discussion we take $u_p = 2u_2$, then the velocity, temperature, and temperature gradient are continuous everywhere, but the acceleration suffers a jump discontinuity at one point, Y_i . Throughout the region *behind* the wave, the velocity and temperature are constants independent of time and position.

For *definite conductors* we know of no example of an acceleration wave propagating *into* a homogeneous region at rest with *uniform temperature*. Hence the calculation sketched in Section 7 does not yet have an application, and the last paragraph of Section 7 (in small print on p. 286) should be deleted. Of course, the general results obtained in Sections 5 and 6 do apply to definite conductors and, in particular, are in agreement with RANKINE's special solution.

(2) Remark 7.5 should be deleted. The remark is correct if it is understood (as we intended) that the configuration ahead of the wave is undistorted, but then, as is easily shown, for a shear wave $\alpha^2 = 0$ at the wave and (7.21) reduces to $a(t) \equiv a(0)$.

(3) Equation (11.14), on page 297, should read *

$$a(t) = \frac{\hat{\lambda}}{\left(\frac{\hat{\lambda}}{a(0)} - 1\right) e^{\hat{\lambda}t} + 1}. \quad (11.14)$$

* Cf. Eq. (4.12) on p. 251 of “Waves in Materials with Memory II . . .”, Arch. Rational Mech. Anal. 19, 239–265 (1964).

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