Erratum

A generalized version of the Rankine-Hugoniot relations including ionization, dissociation, radiation and related phenomena

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In Eq. (6) on page 196 a minus sign should be introduced, so that Eq. (6) reads

$$u_1 = -\frac{\Theta - 1}{2\Theta} M_1 c_1 \qquad (6)$$

or, alternatively, u_1 should be replaced by u_2. Here u_2 is the velocity behind the shock (usually positive), and u_1 is the velocity in front of the shock (usually negative). In this case we assumed $u_2 = -u_1 = u_o$ with u_o being the amplitude of the flow speed. This assumption corresponds to a symmetric sawtooth–type shock. In this case Eq. (5) follows directly from Eq. (6). In the general case, the LHS of the above given equation should read $(u_1 - u_2)/2$. The modified version of the Rankine–Hugoniot equations (see Sect. 2) is however not affected by this assumption.