 Varia – Miscellaneous – Divers

On nonlinear plane vibration of a moving threadline. By A. Donato and F. Oliveri, ZAMP, vol. 39, May 1988, pp. 367–375.

Errata

Relatively to the formula (3.7), the constants T_0 and T_1 must be such that: $T_1 < 0$, $T_0/T_1 < 1/m$.

The sentence in the first line of the section 4 "... as $T' < 0$..." must be read "... as $(mT)' < 0$...".

The conclusion contained in the sentence "Consequently $[F^0]$ has only two independent components and this gives rise to the impossibility for a strong shock to satisfy the previous evolutionary condition [9]" is not correct. The result is certainly true in the case ii) examined in detail in the paper as well as in the case iii), but is not so in the cases i) and iv) corresponding respectively to only reflected and transmitted waves. In the case i) the evolutionary conditions are satisfied and we get:

$$\pi_3^* = \pi_4^* = 0$$

$$\dot{s} = \frac{\rho(s - \lambda_1)^2(\lambda_1^* - \lambda_1)}{[\rho](s - \lambda_1^*)} \pi_1$$

$$\pi_1^* = \frac{\rho(s - \lambda_1)^3}{\rho^*(s - \lambda_1^*)^3} \pi_1$$

whereas in the case iv) we obtain:

$$\pi_3 = \pi_4 = 0$$

$$\dot{s} = \frac{\rho(s - \lambda_1)^2(\lambda_2 - \lambda_1)}{[\rho](s - \lambda_2)} \pi_1$$

$$\pi_2 = - \frac{(s - \lambda_1)^3}{(s - \lambda_2)^3} \pi_1$$

Consequently we can show the results:

- a) for non-characteristic shocks only in the cases i) and iv) the evolutionary conditions are satisfied and it is possible to have only a reflected (respectively transmitted) wave along the non exceptional characteristic;
- b) for characteristic shocks all the cases are possible and they satisfy the evolutionary conditions.

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