ERRATUM

Large particle segregation, transport and accumulation in granular free-surface flows – ERRATUM

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The Publishers apologise to the authors and readers for the following errors which occurred in Gray & Kokelaar (2010).

(a) On P. 116 THE JUMP BRACKETS ARE MISSING:

... At such discontinuities η satisfies the jump condition (see e.g. Chadwick 1976; Gray, Shearer & Thornton 2006, for a general derivation)

$$\llbracket \eta(\bar{u} - v_n) \rrbracket = \llbracket (1 - \alpha)\bar{u}\eta \left(1 - \frac{\eta}{h} \right) \rrbracket, \tag{3.8}$$

where v_n is the normal speed of the shock and the jump bracket $[\![f]\!] = f_2 - f_1$ is the difference of the enclosed quantity on the forward and rearward sides of the shock (denoted by the subscripts 2 and 1, respectively).

(b) On p. 126 also the jump brackets are missing:

... These can be summarized by the relations

$$[\![h(\bar{u}-v_n)]\!]=0,$$
 (4.25)

$$\llbracket h\bar{u}(\bar{u}-v_n)\rrbracket + \llbracket \frac{1}{2}h^2\varepsilon\cos\zeta\rrbracket = 0, \tag{4.26}$$

$$[\![\eta(\bar{u} - v_n)]\!] - [\![(1 - \alpha)\bar{u}\eta(1 - \eta/h)]\!] = 0, \tag{4.27}$$

where the velocity magnitude is assumed to scale as $U = \sqrt{gL}$.

REFERENCES

- Chadwick, P. 1976 Continuum Mechanics. Concise Theory and Problems, 187 pp. George Allen & Unwin (republished Dover 1999).
- GRAY, J. M. N. T. & KOKELAAR, B. P. 2010 Large particle segregation, transport and accumulation in granular free-surface flows. J. Fluid Mech. 652, 105–137.
- Gray, J. M. N. T., Shearer, M. & Thornton, A. R. 2006 Time-dependent solutions for particle-size segregation in shallow granular avalanches. *Proc. R. Soc.* A **462**, 947–972.