

## Erratum

# A generalisation of the theory of geometrical shock dynamics

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In Best (1991), equation (173) should read

$$\begin{aligned}
 \delta\xi(t + \delta t) &\approx \left( \left| \frac{\partial \mathbf{x}(\xi(t), t)}{\partial \xi(t)} \right|^2 + 2a_0 \frac{\partial \mathbf{x}(\xi(t), t)}{\partial \xi(t)} \right. \\
 &\quad \cdot \left( M(\xi(t), t) \frac{\partial \mathbf{n}(\xi(t), t)}{\partial \xi(t)} \right. \\
 &\quad \left. \left. + \frac{\partial M(\xi(t), t)}{\partial \xi(t)} \mathbf{n}(\xi(t), t) \right) \delta t \right)^{\frac{1}{2}} \delta\xi(t) \\
 &\approx \left( 1 + a_0 M(\xi(t), t) \frac{\partial \mathbf{x}(\xi(t), t)}{\partial \xi(t)} \right. \\
 &\quad \left. \cdot \frac{\partial \mathbf{n}(\xi(t), t)}{\partial \xi(t)} \delta t \right) \delta\xi(t)
 \end{aligned} \tag{173}$$

and equation (175) should read

$$\frac{\delta\xi(t + \delta t) - \delta\xi(t)}{\delta\xi(t)\delta t} \approx a_0 M(\xi(t), t) \frac{\partial \mathbf{x}(\xi(t), t)}{\partial \xi(t)} \cdot \frac{\partial \mathbf{n}(\xi(t), t)}{\partial \xi(t)} \tag{175}$$

The reference to the paper by Lighthill should read as set out below.

### References

- Best JP (1991) A generalisation of the theory of geometrical shock dynamics. Shock Waves 1(4):251-273  
 Lighthill MJ (1949) The diffraction of blast I. Proc Roy Soc London A 198:454-470