


Erratum: Geometrical analysis of sand piles on small platforms
[Phys. Rev. E 68, 011303 (2003)]

John M. H. Barton and Steven G. Buchberger

 (Received 19 June 2024; published 19 July 2024)

DOI: [10.1103/PhysRevE.110.019903](https://doi.org/10.1103/PhysRevE.110.019903)

We have identified errors in this article. Three equations were missing a term. These errors affect none of the data in or the conclusions of the article.

Equation (20) should include the term c^3 in the numerator of the first term inside the square brackets.

Equations (21) and (29) should include the term \bar{c}^3 in the numerator of the first term inside the square brackets.

The three corrected equations are shown below.

Corrected Eq. (20):

$$V_p = 2\pi \left[\frac{c^3 - (c^2 + r_m^2 \tan^2 i)^{3/2}}{3 \tan^2 i} + \frac{1}{2} r_m^2 (c^2 + r_m^2 \tan^2 i)^{1/2} + a b r_m + \frac{1}{2} a r_m^2 + a b (r_m + b) \ln \left(\frac{b}{b + r_m} \right) \right]. \quad (20)$$

Corrected Eq. (21):

$$D_p = \frac{2}{S^3} \left[\frac{\bar{c}^3 - (\bar{c}^2 + S^2 \tan^2 i)^{3/2}}{3 \tan^2 i} + \frac{1}{2} S^2 (\bar{c}^2 + S^2 \tan^2 i)^{1/2} + \bar{a} \bar{b} S + \frac{1}{2} \bar{a} S^2 + \bar{a} \bar{b} (S + \bar{b}) \ln \left(\frac{\bar{b}}{\bar{b} + S} \right) \right]. \quad (21)$$

Corrected Eq. (29):

$$D_{\text{SPM}} = \frac{2f}{S^3} \left[\frac{\bar{c}^3 - (\bar{c}^2 + S^2 \tan^2 i)^{3/2}}{3 \tan^2 i} + \frac{1}{2} S^2 (\bar{c}^2 + S^2 \tan^2 i)^{1/2} + \bar{a} \bar{b} S + \frac{1}{2} \bar{a} S^2 + \bar{a} \bar{b} (S + \bar{b}) \ln \left(\frac{\bar{b}}{\bar{b} + S} \right) \right] + (1 - f) \frac{(1 - \cos i)^2}{3 \cos i}. \quad (29)$$