FISFVIFR

Contents lists available at SciVerse ScienceDirect

Journal of the Mechanics and Physics of Solids

journal homepage: www.elsevier.com/locate/jmps



Erratum

Erratum: "On the wrinkling of a pre-stressed annular thin film in tension" [Journal of Mechanics and Physics of Solids 55 (2007) 1601]

Ciprian D. Coman a,*, Andrew P. Bassom b

A number of algebraic errors have been discovered in this article. While they do not detract from the overall mathematical development, the corrected formulae differ slightly from those already published. The errors are listed below for the interested reader.

• The quantity Γ_2 defined after Eq. (20c) must be changed to

$$\Gamma_2 := -2N_0N_1 - (\widehat{A}_1\eta^2 - \widehat{B}_1)(\lambda_1N_1 + \lambda_2N_0) - 2\eta(\widehat{A}_0N_1 + \widehat{A}_1N_0\lambda_1)X - \widehat{A}_0N_0X^2.$$

 \bullet As a consequence, the expressions of \varGamma_3 and \varGamma_4 after Eq. (25) will become

$$\Gamma_4 := \frac{N_1}{N_0} + \frac{3C}{\eta} - \frac{3N_0}{2\widehat{A}_0\eta^2},$$

$$\Gamma_5 := \frac{N_0^{1/3}}{2\widehat{A}_0 n^2} \left[N_1 + \widehat{A}_0 C^2 - 2\widehat{A}_1 \eta C \lambda_1 + \frac{\lambda_2}{\lambda_1} (2\widehat{A}_0 \eta C - N_0) \right].$$

• Furthermore, the expressions of λ_2 in (26) and that of λ_2^* in (27b) will have to be modified to

$$\lambda_2 = \frac{2\eta^2 \widehat{A}_0 \lambda_1}{N_0^{1/3} (N_0 + 2\xi_0 \eta^2 \widehat{A}_0 N_0^{-1/3})} \left[\left(\frac{N_0^{1/3}}{2\eta^2 \widehat{A}_0} - \frac{\xi_0}{3N_0} \right) N_1 + \lambda_1 \frac{\xi_0 \widehat{A}_1}{\widehat{A}_0} + (N_0 + 2\xi_0 \eta^2 \widehat{A}_0 N_0^{-1/3}) \frac{\xi_0}{2\eta^2 \widehat{A}_0} + \frac{N_0^{1/3}}{\eta(2\widehat{A}_0)^{1/2}} \right] + \frac{N_0^{1/3}}{\eta(2\widehat{A}_0)^{1/2}} \left[\frac{N_0^{1/3}}{2\eta^2 \widehat{A}_0} + \frac{N_0^{1/3}}{\eta(2\widehat{A}_0)^{1/2}} + \frac{N_0^{1/3}}{\eta(2\widehat{A}_0)^{1/2}} \right] + \frac{N_0^{1/3}}{\eta(2\widehat{A}_0)^{1/2}} \left[\frac{N_0^{1/3}}{2\eta^2 \widehat{A}_0} + \frac{N_0^{1/3}}{\eta(2\widehat{A}_0)^{1/2}} + \frac{N_0^{1/3}}{\eta(2\widehat{A}_0)^{1/2}} + \frac{N_0^{1/3}}{\eta(2\widehat{A}_0)^{1/2}} \right] + \frac{N_0^{1/3}}{\eta(2\widehat{A}_0)^{1/2}} \left[\frac{N_0^{1/3}}{\eta(2\widehat{A}_0)^{1/2}} + \frac{N_0^{1/3}}{\eta($$

and, respectively,

$$\lambda_2^* := 2\eta^2 G \left[4\xi_0 (N_0^*)^{2/3} \left(G \widehat{A}_1 + \frac{1}{2\eta^2} \right) + \frac{\widehat{A}_0^{1/2}}{\eta \sqrt{2}} \right].$$

DOI of original article: 10.1016/j.jmps.2007.01.006

* Corresponding author.

E-mail address: cdc@maths.gla.ac.uk (C.D. Coman).

a University of Glasgow, School of Mathematics and Statistics, 15 University Gardens, Glasgow G12 80W, United Kingdom

b University of Western Australia, School of Mathematics and Statistics, 35 Stirling Highway, Crawley, 6009 Western Australia, Australia