ERRATUM

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Erratum to: Shell–tensionless foundation interaction and nonlinear thermoelastic stability analysis of laminated composite cylindrical panels

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Results and discussion

Some figures and tables need to be changed, and consequently, some results in the section “Results and discussion” should be corrected. The following figures and tables need to be modified.

On page 13, Fig. 6 needs to be replaced by the following corrected figure:

Fig. 6 Effects of changes in the panel aspect ratio and modulus of foundation on the panel critical temperature (ΔT_{cr}), for cylindrical symmetric cross-ply panels with lamination scheme $[(90/0)_2]_s$, having geometric properties ($\alpha = 18^\circ$, $b/h = 100$), under uniform temperature rise

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On page 13, Table 7 needs to be replaced by the following corrected table:

Table 7 Effects of changes in panel aspect ratio and modulus of foundation on the panel critical temperature (ΔT_{cr}), for symmetric cross-ply cylindrical panels with lamination scheme of $[(90/0)_2]_s$ and having geometric properties of ($\alpha = 15^\circ$, $b/h = 100$), for different foundation moduli

Foundation modulus, β	$a/b = 1$		$a/b = 2$		$a/b = 3$		$a/b = 4$	
	ΔT_{cr} ($^\circ\text{C}$)	$S_{\Delta\beta_i}^{\Delta T_{cr_i}}$	ΔT_{cr} ($^\circ\text{C}$)	$S_{\Delta\beta_i}^{\Delta T_{cr_i}}$	ΔT_{cr} ($^\circ\text{C}$)	$S_{\Delta\beta_i}^{\Delta T_{cr_i}}$	ΔT_{cr} ($^\circ\text{C}$)	$S_{\Delta\beta_i}^{\Delta T_{cr_i}}$
Two-sided	325.9603	(1,2) ^a	304.5706	(1,2) ^a	300.3314	(1,2) ^a	298.9562	(1,2) ^a
1	326.0	0.011	304.6	0.028	300.5	0.04	299.1	0.06
2	326.3	0.11	305.4	0.27	301.6	0.43	300.7	0.59
3	329.5	1.10	313.0	2.77	313.4	4.34	316.5	5.86
4	360.6	10.6	383.2	25.8	417.3	38.9	447.7	49.7
5	544.9	67.2	624.3	105.0	696.0	131.7	749.5	150.7
6	681.7	109.1	729.8	139.6	802.4	167.1	850.9	184.6
7	705.1	116.3	753.7	147.4	827.5	175.5	872.9	192.0
8	710.4	117.9	761.2	149.9	834.3	177.8	878.0	193.7
9	711.7	118.3	773.9	154.1	836.6	178.5	879.3	194.1
10	712.1	118.4	787.2	158.4	—	—	—	—

^a Mode number

On page 14, Table 8 needs to be replaced by the following corrected table:

Table 8 Effects of changes in panel aspect ratio and modulus of foundation on the panel critical temperature (ΔT_{cr}), for symmetric cross-ply cylindrical panels with lamination scheme of $[(90/0)_2]_s$ and having geometric properties of ($\alpha = 30^\circ$, $b/h = 100$), for different foundation moduli

Foundation modulus, β	$a/b = 1$		$a/b = 2$		$a/b = 3$		$a/b = 4$	
	ΔT_{cr} ($^\circ\text{C}$)	$S_{\Delta\beta_i}^{\Delta T_{cr_i}}$	ΔT_{cr} ($^\circ\text{C}$)	$S_{\Delta\beta_i}^{\Delta T_{cr_i}}$	ΔT_{cr} ($^\circ\text{C}$)	$S_{\Delta\beta_i}^{\Delta T_{cr_i}}$	ΔT_{cr} ($^\circ\text{C}$)	$S_{\Delta\beta_i}^{\Delta T_{cr_i}}$
Two-sided	503.48	(1,2) ^a	358.08	(1,2) ^a	323.899	(1,2) ^a	311.807	(1,2) ^a
1	503.5	0.007	358.2	0.024	324.0	0.04	312.0	0.05
2	503.8	0.072	358.9	0.23	325.2	0.40	313.6	0.6
3	507.1	0.71	366.6	2.37	337.0	4.05	329.5	5.68
4	539.0	7.06	441.0	23.2	450.9	39.2	480.9	54.2
5	789.9	56.9	919.1	156.7	1,034.1	219.2	1,116.3	258.0
6	1,226.4	143.6	1,410.2	293.8	1,532.2	373.0	1,574.1	404.8
7	1,389.9	176.1	1,590.7	344.2	1,683.4	419.7	1,704.1	446.5
8	1,423.9	182.9	1,634.3	356.4	1,718.1	430.4	1,732.6	455.6
9	1,432.5	184.5	1,645.0	359.4	1,725.7	432.7	—	—
10	—	—	—	—	—	—	—	—

^a Mode number

On page 14, in the fourth paragraph, line 5, the numbers “143” and “173” need to be replaced by the numbers “116.3” and “176.1”.

On page 15, Fig. 7 needs to be replaced by the following corrected figure:

Fig. 7 Effects of changes in panel aspect ratio and the type of foundation (one-sided and two-sided) on the panel critical temperature (ΔT_{cr}), for symmetric cross-ply cylindrical panels with two lamination schemes $[(90/0)_2]_s$ and $[(90_2/0_2)]_s$ having geometric properties of ($\alpha = 15^\circ$, $b/h = 100$), and the foundation modulus of $\beta = 4$

On page 15, Fig. 8 needs to be replaced by the following corrected figure:

Fig. 8 Effects of changes in panel aspect ratio and the type of foundation (one-sided and two-sided) on the panel critical temperature (ΔT_{cr}), for symmetric cross-ply cylindrical panels with two lamination schemes $[(90/0)_2]_s$ and $[(90_2/0_2)]_s$ having geometric properties of ($\alpha = 30^\circ$, $b/h = 100$), and the foundation modulus of $\beta = 4$

On page 15, in the first paragraph, line 8, some sentences need to be corrected. Please replace this:

“For one-sided constraint and for both lamination schemes, raising the aspect ratio up to the value of $a/b = 1.8$ as observed from Fig. 7, and up to $a/b = 2.6$ as from Fig. 8, the critical temperature would decrease, and for values higher than those mentioned, the critical temperature would experience an increasing trend”.

By this:

“For one-sided constraint and for both lamination schemes, raising the aspect ratio as observed from Fig. 7, the critical temperature would increase, while in Fig. 8, raising the aspect ratio up to the value of $a/b = 2.2$, the critical temperature would decrease, and for values higher than that the critical temperature would experience an increasing trend”.

On page 15, in the first paragraph, line 14, the numbers “38 and 47 %” must be replaced by the numbers “34 and 49 %”.

On page 15, in the first paragraph, line 14, the numbers “40 and 44.2 %” must be replaced by the numbers “44 and 54 %”.

On page 16, Fig. 9 needs to be replaced by the following corrected figure:

Fig. 9 Effects of changes in the laminate angle plies and the type of foundation (one-sided and two-sided) on the panel critical temperature (ΔT_{cr}), for symmetric angle-ply cylindrical panels having schemes $[(+\theta)_2/(-\theta)_2]_S$ with two different panel central angles of $\alpha = 15^\circ$ and 30° , having geometric properties of $(a/b = 1, b/h = 200)$, and the foundation modulus of $\beta = 5$

On page 16, Fig. 10 needs to be replaced by the following corrected figure:

Fig. 10 Effects of changes in the laminate angle plies and the type of foundation (one-sided and two-sided) on the panel critical temperature (ΔT_{cr}), for symmetric angle-ply cylindrical panels having schemes $[(+\theta)_2/(-\theta)_2]_S$ with two different panel central angles of $\alpha = 45^\circ$ and 90° , having geometric properties of $(a/b = 1, b/h = 200)$, and the foundation modulus of $\beta = 5$

On page 16, in the first paragraph, line 1, the numbers “57° and 52°” must be replaced by “47°, 52° and 50°, 56°”.

On page 16, in the first paragraph, line 5, the number “47°” must be replaced by “54°”.

On page 16, in the second paragraph, line 4, the word “decreasing” must be replaced by “increasing”.

On page 17, Fig. 11 needs to be replaced by the following corrected figure:

Fig. 11 Effects of changes in the panel thickness and the type of foundation (one-sided and two-sided) on the panel critical temperature (ΔT_{cr}), for symmetric cross-ply cylindrical panels having scheme $[(90_2/0_2)]_s$ with panel central angle of $\alpha = 30^\circ$, and the foundation modulus of $\beta = 5$, under uniform temperature rise

References

The references determined by numbers [2], [3], and [5] should be replaced by the following corrected references:

2. Kiani, Y., Bagherizadeh, E., Eslami, M.R.: Thermal buckling of clamped thin rectangular FGM plates resting on pasternak elastic foundation (three approximate analytical solutions). *Z. Angew. Math. Mech.* **91**, 571–593 (2011)
3. Kiani, Y., Eslami, M.R.: Thermal buckling and post-buckling response of imperfect temperature dependent sandwich FGM plates resting on elastic foundation. *Arch. Appl. Mech.* **82**, 891–705 (2012)
5. Bagherizadeh, E., Kiani, Y., Eslami, M.R.: Thermal buckling of functionally graded material cylindrical shells on elastic foundation. *AIAA J.* **50**, 500–503 (2012)