

Supporting Information

for

Evidence of friction reduction in laterally graded materials

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Computed values of the global static coefficients of friction

Tables reporting the computed absolute values of the global static friction coefficient μ_s , as function of Δ and obtained through SBM and FEM, for the case of gradients in the local friction coefficients and gradients in the material Young's modulus.

Gradients in the local coefficients of friction		
Δ	SBM	FEM
-0.4	0.6198	0.7080
-0.3	0.6501	0.7128
-0.2	0.7458	0.7321
-0.1	0.8346	0.8237
0.0 (reference case)	0.9124	0.9124
0.1	0.8336	0.8640
0.2	0.7442	0.7776
0.3	0.6491	0.6835
0.4	0.6212	0.6746

Gradients in the material Young's modulus		
Δ	SBM	FEM
-0.4	0.6725	0.6844
-0.3	0.7236	0.7197
-0.2	0.7789	0.7756
-0.1	0.8509	0.8451
0.0 (reference case)	0.9124	0.9124
0.1	0.8494	0.8325
0.2	0.7808	0.7667
0.3	0.7251	0.7500
0.4	0.6754	0.7278