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American National Standards Institute

August 25, 2015

Mehran Motamedi
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High-res required	no
Figures	FIG. 1: A rubber block sliding on a rough hard substrate. (a) On a dry substrate the rubber penetrates a large valley and explores the short wavelength roughness within. The pulsating rubber deformations induced by the short-wavelength roughness contributes to the friction force. (b) On a wet substrate the valley turns into a water pool. Sealing of the pool prevents the rubber from entering the valley. By removing the valley contribution to the frictional force, the

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