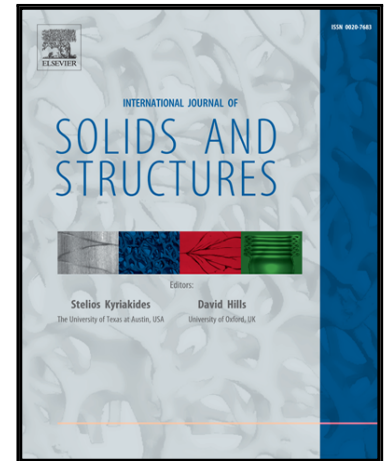


Accepted Manuscript

Adhesive and adhesiveless contact mechanics of elastic layers on slightly wavy rigid substrates

N. Menga, L. Afferrante, G. Carbone

PII: S0020-7683(16)00135-9
DOI: [10.1016/j.ijsolstr.2016.03.016](https://doi.org/10.1016/j.ijsolstr.2016.03.016)
Reference: SAS 9104



To appear in: *International Journal of Solids and Structures*

Received date: 27 November 2015
Revised date: 4 March 2016
Accepted date: 18 March 2016

Please cite this article as: N. Menga, L. Afferrante, G. Carbone, Adhesive and adhesiveless contact mechanics of elastic layers on slightly wavy rigid substrates, *International Journal of Solids and Structures* (2016), doi: [10.1016/j.ijsolstr.2016.03.016](https://doi.org/10.1016/j.ijsolstr.2016.03.016)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Two different geometries of elastic layer in adhesive and adhesiveless contact with a wavy rigid substrate are analyzed.
- One geometry shows larger pull-off force, the other one is instead able to face larger deformations.
- One geometry is suited for structural adhesives, the other one for pressure sensitive and protective adhesives.
- The proposed solution is useful to capture the basic features of the adhesion on real rough surfaces.

Download English Version:

<https://daneshyari.com/en/article/6748525>

Download Persian Version:

<https://daneshyari.com/article/6748525>

[Daneshyari.com](https://daneshyari.com)