

Accepted Manuscript

Full Length Article

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PII: S0169-4332(17)33783-2
DOI: <https://doi.org/10.1016/j.apsusc.2017.12.189>
Reference: APSUSC 38059

To appear in: *Applied Surface Science*

Received Date: 15 September 2017
Revised Date: 5 December 2017
Accepted Date: 20 December 2017

Please cite this article as: C-C. Lee, P-C. Huang, The Development of Estimated Methodology for Interfacial Adhesion of Semiconductor Coatings Having an Enormous Mismatch Extent, *Applied Surface Science* (2017), doi: <https://doi.org/10.1016/j.apsusc.2017.12.189>

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The Development of Estimated Methodology for Interfacial Adhesion of Semiconductor Coatings Having an Enormous Mismatch Extent

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Abstract

The long-term reliability of multi-stacked coatings suffering the bending or rolling load was a severe challenge to extend the lifespan of foregoing structure. In addition, the adhesive strength of dissimilar materials was regarded as the major mechanical reliability concerns among multi-stacked films. However, the significant scale-mismatch from several nano-meter to micro-meter among the multi-stacked coatings causing the numerical accuracy and converged capability issues on fracture-based simulation approach. For those reasons, this study proposed the FEA-based multi-level submodeling and multi-point constraint (MPC) technique to

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