



Mechanical Properties of Thin Films Studied by Bulge Testing

By Benoit Merle

FAU University Press Okt 2013, 2013. Taschenbuch. Condition: Neu. Neuware - The bulge test is a method of choice for investigating the mechanical behavior of freestanding films as thin as a few hundreds of nanometers. The work presented in this book extends the scope of this technique to the study of the fracture, time-dependent and fatigue properties of different kinds of membranes, with applications to gold and silicon nitride samples. These results were achieved during a PhD thesis performed at the Institute for General Materials Properties of the Materials Science Department at the Friedrich-Alexander-University Erlangen-Nürnberg. 148 pp. Englisch.

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