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Thin film mechanical behavior and stress presents a technological challenge for materials scientists, physicists and engineers. This book provides a comprehensive coverage of the major issues and topics dealing with stress, defect formation, surface evolution and allied effects in thin film materials.

Thin Film Materials: Stress, Defect Formation and Surface ...

Buy Thin Film Materials: Stress, Defect Formation and Surface Evolution Illustrated by Freund, L. B., Suresh, S. (ISBN: 9780808916710) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Thin Film Materials: Stress, Defect Formation and Surface Evolution. Cambridge: Cambridge University Press, 2003. Thin films play an important role in many technological applications including microelectronic devices, magnetic storage media and surface coatings. This book provides a comprehensive coverage of the major issues and topics dealing with stress, defect formation and surface evolution in thin films.

Thin Film Materials Stress, Defect Formation and Surface ...

Thin film mechanical behavior and stress presents a technological challenge for materials scientists, physicists and engineers. This book provides a comprehensive coverage of the major issues and topics dealing with stress, defect formation, surface evolution and allied effects in thin film materials. Physical phenomena are examined from the continuum down to the sub-microscopic length scales, with the connections between the structure of the material and its behavior described.

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@Inproceedings(Freund2004ThinFM, title=(Thin Film Materials: Stress, Defect Formation and Surface Evolution), author=(L. Freund and S. Suresh), year=(2004) } 1. Introduction and overview 2. Film stress and substrate curvature 3. Stress in anisotropic and patterned films 4. Delamination and fracture ...

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Almost all thin films possess process induced stress that results from its microstructural evolution during thin film growth. 13 These thin film stressors are e-beam evaporated to minimize defect...

Thin Film Materials: Stress, Defect Formation, and Surface ...

This book provides comprehensive coverage of stress, defect formation and surface evolution in thin films. With its balanced coverage of theory, experiment and simulation and many homework problems, the text will be essential reading in senior undergraduate and graduate courses on thin films.

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Thin Film Materials by L. B. Freund - Cambridge Core

The existence of residual stress in films deposited on substrates and the effects of such stress on delamination and cracking were recognized as early as the nineteenth century. For example, an antimony film deposited on a substrate was found to be prone to cracking as a result of vibration or local application of heat (Gore 1858, Gore 1862). Gore ascribed the bending of the deposited layers to the development of ' unequal states of cohesive tension ' through the thickness of the deposit.

Film stress and substrate curvature (Chapter 2) - Thin ...

For instance, misfit dislocation and critical thickness phenomena in thin films is treated with linear elasticity models, so much so that it is of limited use in thin films of multifunctional materials (ferromagnetics, ferroelectrics, ferroelastics, multiferroics etc).

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Thin Film Materials: Stress, Defect Formation, and Surface Evolution (2003) Poisson ratio, 0.34. L.B. Freund, S. Suresh. Thin Film Materials: Stress, Defect Formation, and Surface Evolution (2003) Stiffness Constants. C11 = 168.3 Gpa, C12 = 1.221 Gpa, C44 = 0.757 Gpa. CRC Handbook of Chemistry and Physics (2003-2004)

Copper - MIT

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Thin film materials: stress, defect formation and surface evolution Freund L.B., Suresh S. Thin Film Materials will prove a valuable resource. It contains a wealth of useful references and good indexes. It is richly illustrated, and there are good exercises after each chapter. For a graduate course in the field, it will be hard to beat.

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