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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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Freund, L. B., and S.
Suresh. Thin Film
Materials: Stress,
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Cambridge: Cambridge
University Press, 2003.

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thin films can be
caused, for example,
by the incorporation of
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Surface evolution and
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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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