



Abraham Lincoln and the Union A Chronicle of the Embattled North Volume 29

By -

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Excerpt: . . . 2. 3 Geontries with a continuous spectrum of a deterministic or random nature of surface imperfections which have a continuous spatial spectrum, and, there-Now, considertile class fore, cannot be classified as discrete-mode waviness. Assunfing the spectrum to be homogeneous in the streamwise direction, one can integrate over all contributions of the folm (2. 1, ib) in order to arrive at the total coupling coefficient for any particular geometry. In addition to its dependence on the power spectral density R_0 (awl) of the surface-irregularity distribution, the coupling coefficient also depends upon the relative phase distribution, 0 (aw,), between the dilferent wavenumber components of the surface undulations. Ilowever, an obvious conclusion that holds for all geometries with a continuous spatial spectrum is that the integrated coupling coefficient is O (R . . ls) times smaller than the discrete mode solutions (2. 12) and (2. 14a), since the bandwidth in the...



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