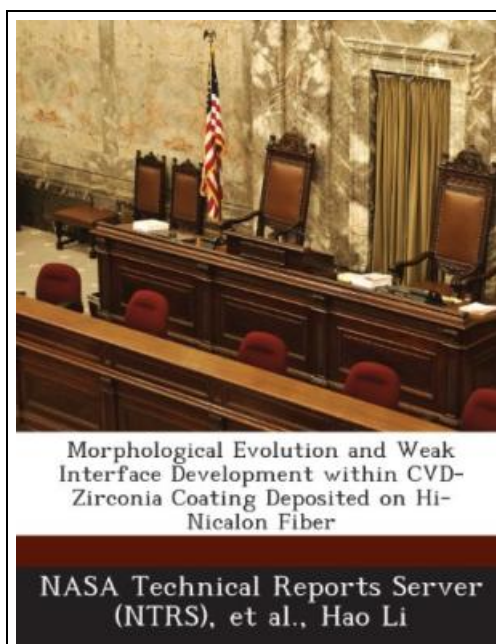


## Morphological Evolution and Weak Interface Development Within CVD-Zirconia Coating Deposited on Hi-Nicalon Fiber



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Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The phase contents and morphology of a ZrO<sub>2</sub> fiber coating deposited at 1050 C on Hi-Nicalon(Tm) by chemical vapor deposition were examined as a function of deposition time from 5 to 120 min. The morphological evolution in the ZrO<sub>2</sub> coating was correlated to the development of delamination within the ZrO<sub>2</sub> coating. The delamination appears to occur as a result of: (1) continuous formation of tetragonal ZrO<sub>2</sub> nuclei on the deposition surface; (2) martensitic transformation of the tetragonal phase to a monoclinic phase upon reaching a critical grain size; and (3) development of significant compressive hoop stresses due to the volume dilation associated with the transformation. Our observations suggest that it will be of critical importance to further understand and eventually control the nucleation and grain growth behavior of CVD ZrO<sub>2</sub> and its phase transformation behavior for its potential applications for composites.



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