

## Back-Face Strain for Monitoring Stable Crack Extension in Precracked Flexure Specimens



Back-Face Strain for Monitoring  
Stable Crack Extension in  
Prestressed Flexure Specimens

NASA Technical Reports Server  
(NTRS)

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### Reviews

*This publication is definitely not simple to begin on studying but quite fun to see. It really is full of knowledge and wisdom I am just effortlessly can get a satisfaction of studying a created pdf.*  
*(Alfreda Bradtke)*

## BACK-FACE STRAIN FOR MONITORING STABLE CRACK EXTENSION IN PRECRACKED FLEXURE SPECIMENS

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 32 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. Calibrations relating back-face strain to crack length in precracked flexure specimens were developed for different strain gage sizes. The functions were verified via experimental compliance measurements of notched and precracked ceramic beams. Good agreement between the functions and experiments occurred, and fracture toughness was calculated via several operational methods: maximum test load and optically measured precrack length; load at 2 percent crack extension and optical precrack length; maximum load and back-face strain crack length. All the methods gave very comparable results. The initiation toughness,  $K_{Ic}$ , was also estimated from the initial compliance and load. The results demonstrate that stability of precracked ceramics specimens tested in four-point flexure is a common occurrence, and that methods such as remotely-monitored load-point displacement are only adequate for detecting stable extension of relatively deep cracks. This item ships from La Vergne, TN. Paperback.



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