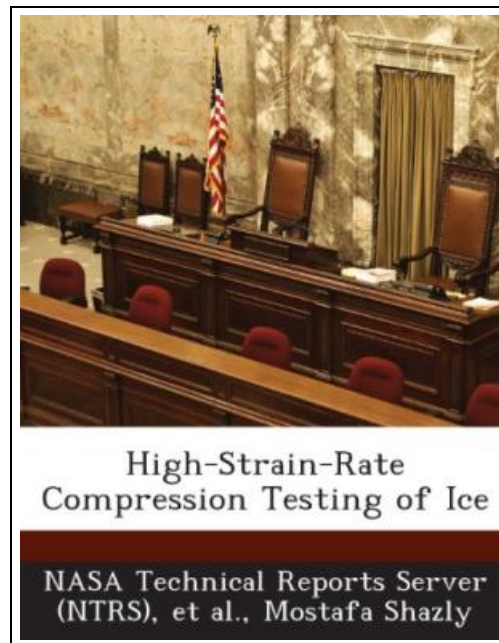


High-Strain-Rate Compression Testing of Ice



Filesize: 4.61 MB

Reviews

I just started looking over this ebook. I could possibly comprehend everything out of this published e publication. You are going to like the way the author compose this publication.

(Giles Vandervort DDS)

HIGH-STRAIN-RATE COMPRESSION TESTING OF ICE



To save **High-Strain-Rate Compression Testing of Ice** eBook, make sure you follow the hyperlink beneath and save the document or have access to other information that are have conjunction with HIGH-STRAIN-RATE COMPRESSION TESTING OF ICE ebook.

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 102 pages. Dimensions: 9.7in. x 7.4in. x 0.2in. In the present study a modified split Hopkinson pressure bar (SHPB) was employed to study the effect of strain rate on the dynamic material response of ice. Disk-shaped ice specimens with flat, parallel end faces were either provided by Dartmouth College (Hanover, NH) or grown at Case Western Reserve University (Cleveland, OH). The SHPB was adapted to perform tests at high strain rates in the range 60 to 1400s at test temperatures of -10 and -30 C. Experimental results showed that the strength of ice increases with increasing strain rates and this occurs over a change in strain rate of five orders of magnitude. Under these strain rate conditions the ice microstructure has a slight influence on the strength, but it is much less than the influence it has under quasi-static loading conditions. End constraint and frictional effects do not influence the compression tests like they do at slower strain rates, and therefore the diameterthickness ratio of the samples is not as critical. The strength of ice at high strain rates was found to increase with decreasing test temperatures. Ice has been identified as a potential source of debris to impact the shuttle; data presented in this report can be used to validate and/or develop material models for ice impact analyses for shuttle Return to Flight efforts. This item ships from La Vergne, TN. Paperback.



[Read High-Strain-Rate Compression Testing of Ice Online](#)



[Download PDF High-Strain-Rate Compression Testing of Ice](#)

See Also



[PDF] **Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade**

Follow the link under to get "Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade" document.

[Download PDF >](#)



[PDF] **Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade**

Follow the link under to get "Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade" document.

[Download PDF >](#)



[PDF] **Summer the 25th anniversary of the equation (Keigo Higashino shocking new work! Lies and true Impenetrable(Chinese Edition)**

Follow the link under to get "Summer the 25th anniversary of the equation (Keigo Higashino shocking new work! Lies and true Impenetrable(Chinese Edition)" document.

[Download PDF >](#)



[PDF] **Read Write Inc. Phonics: Set 7 Non-Fiction 3 the Ice and Snow Book**

Follow the link under to get "Read Write Inc. Phonics: Set 7 Non-Fiction 3 the Ice and Snow Book" document.

[Download PDF >](#)



[PDF] **Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities**

Follow the link under to get "Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities" document.

[Download PDF >](#)



[PDF] **Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Follow the link under to get "Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications ." document.

[Download PDF >](#)