



High-Strain-Rate
Compression Testing of Ice

NASA Technical Reports Server
(NTRS), et al., Mostafa Shazly

DOWNLOAD



High-Strain-Rate Compression Testing of Ice

By Mostafa Shazly

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...



READ ONLINE

[4.99 MB]

Reviews

The ebook is simple in go through safer to understand. I could possibly comprehended every thing out of this composed e pdf. Its been designed in an exceptionally basic way in fact it is only soon after i finished reading this pdf by which actually altered me, modify the way i really believe.

-- Ms. Kellie O'Hara I

This ebook is amazing. I actually have read and i also am certain that i will going to read once more again down the road. I found out this pdf from my dad and i advised this book to discover.

-- Isaiah Swaniawski

Other Books



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

Book Condition: Brand New. Book Condition: Brand New.



[**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**](#)

Book Condition: Brand New. Book Condition: Brand New.



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

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date: Unknown in Publisher: Modern Publishing Basic information Original Price: 28.00 yuan Author: Publisher: Modern Publishing ISBN: 9.787.514.307.542 Yema:...



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

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 207 x 86 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books is carefully levelled to match childrens growing...



[**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**](#)

HarperCollins Publishers Inc, United States, 2016. Paperback. Book Condition: New. Reprint. 203 x 135 mm. Language: English . Brand New Book. An international bestseller, Barbara Coloroso s groundbreaking and trusted guide on bullying-including cyberbullying-arms parents and teachers with real solutions for a...



[**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 .**](#)

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the...