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Mechanical Properties of Multi-Year Sea Ice. Testing Techniques.

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Abstract : This report describes the equipment and procedures that were used for acquiring, preparing and testing samples of multi-year sea ice. Techniques and procedures are discussed for testing ice samples in compression and tension at constant strain rates and constant loads, as well as in a conventional triaxial cell. A detailed account is given of the application and measurement of forces and displacements on the ice test specimens under these different loading conditions.

Descriptors : *TEST METHODS , *SEA ICE , MEASUREMENT , MECHANICAL PROPERTIES , LOADS(FORCES) , DISPLACEMENT , TENSILE PROPERTIES , TEST EQUIPMENT , STRAIN RATE , CONSTANTS , SAMPLING , COMPRESSIVE PROPERTIES , TRIAXIAL STRESSES

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DTIC A
to Z
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Quick
Navigation
Guide
Registration

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