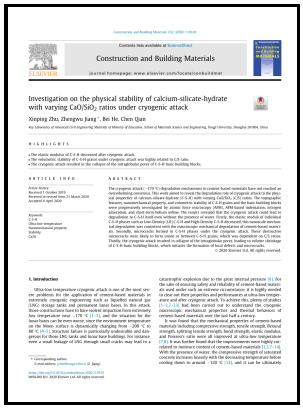
Cryogenic behaviour of materials for prestressed concrete

Fédération Internationale de la Précontrainte - Bending behavior of prestressed



Description: -
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Watercolor painting -- 19th century -- Exhibitions.
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Prestressed concrete.
Concrete tanks.
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State of art report (Fédération internationale de la précontrainte)
State of art report / Fédération Internationale de la PrécontrainteCryogenic behaviour of materials for prestressed concrete
Notes: Cover title.
This edition was published in 1982

Filesize: 29.106 MB

Tags: #Thermal #deformation #of #loaded #concrete #at #low #temperatures. #3: #Lightweight #concrete

Fracture of Concrete at Cryogenic Temperatures

Xie J, Lei GC, Wei Q 2014 Experimental research on flexural properties of reinforced concrete beams at cryogenic temperature. After that, the temperature in the cooling chamber will be gradually increased to the ambient temperature step-by-step. Creep behavior in bending of the hot pressed MoSi{sub 2} was studied in the temperature and stress intervals from 1,100 C--1,200 C and from 20 to 100 MPa, respectively.

Behavior of the reinforced concrete at cryogenic temperatures

DiTommaso, Eds Martinus Nijhoff Publishers, 1985 , p.

Fracture Energy of Water Saturated and Partially Dry Concrete at Room and at Cryogenic Temperatures

Construction and Building Materials, 151, 661—672. However, this presupposes proper appreciation of the materials employed in construction since their effective, efficient, and economic use governs structural form, configuration, and integrity. During this heating process, linear varying displacement transducers LVDTs were used to monitor the displacements at the two ends of the steel strand as shown in Fig.

Cryogenic prestressed concrete: Fracture aspects

Tests and Analysis on Thermal Expansion Behaviour of Steel Strand used in Prestressed Concrete Structure under Low Temperatures. Mater Struct 50, 81 2017. Design of steel structures-Part 1-11: Design of structures with tension components.

Static and Cyclic Behavior of Structural Lightweight Concrete at Cryogenic Temperatures

Materials and Design, 61, 150—159. Another scenario of the PC or RC structures under critical low temperature occurs to the container for the liquid natural gas LNG when the leakage of LNG took place.

Behaviour of plain concrete

In addition, the effects of radiation and moisture migration are discussed. The computer code is a finite element program which has a weakly coupled thermomechanical formulation.

Cryogenic concrete

These figures show that there were two working stages for the development of the thermal strain as the temperature increases from -165 to 0 °C.

Cryogenic concrete

By satisfying the above three evaluation criteria, the regression analyses were carried out with the best subset method. Test methods for thermal expansion characteristic parameters of metallic materials, China. Xie J, Han XD, Pei JM, Lei GC 2015 Experimental study of mechanical properties of reinforcing steels at cryogenic temperatures.

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