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HYDROSTATIC STRESS EFFECT ON THE YIELD BEHAVIOR OF INCONEL 100



Hydrostatic Stress Effect On the Yield Behavior of Inconel

NASA Technical Reports Server (NTRS), Phillip A. Allen, Christopher D. Wilson BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 40 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.Classical metal plasticity theory assumes that hydrostatic stress has no effect on the yield and postyield behavior of metals. Recent reexaminations of classical theory have revealed a significant effect of hydrostatic stress on the yield behavior of notched geometries. New experiments and nonlinear finite element analyses (FEA) of Inconel 100 (IN 100) equal-arm bend and double-edge notch tension (DENT) test specimens...

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