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ABSTRACT. A continuous damage theory is employed to study mechanics behavior of concrete material characterized by strain-softening. The influence of the initiation and growth of microdefects (damage) between the interphase interface is studied by analyzing the condition of interphase. Problems are considered in terms of elastic-damage theory for brittle materials.

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Mechanical Behavior of Materials. Zhang, Z B Tao, N R Mishin, O V and Pantleon, W 2015. Orientation-dependent recrystallization in an oxide dispersion strengthened steel after dynamic plastic deformation. IOP Conference Series: Materials Science and Engineering , Vol. 89, p. 012059.

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In addition, the mechanical behaviour of materials in different chemical environments is also studied using a slow strain rate apparatus fitted with an environment chamber. The department is actively pursuing research in mechanical behaviour of soft matter including cells, using state of the art atomic force microscopy and nano-indentation tools.*

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Since most curricula do not have the luxury of allocating this amount of time to mechanical behavior of materials, the text has been designed so that material can be culled or deleted with ease.

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Mechanical Behavior of Materials

Mechanical Behavior of Materials. Examining a material's response to nanoindentation can lend insight to the microstructural and molecular determinants of its mechanical properties. (Image by Prof. Van Vliet and Dr. Catherine Tweedie. Used with permission.)

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