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Cracks in rock are a mechanism of brittle deformation in response to stress A fracture is any separation in a geologic formation, such as a joint or a fault that divides the rock into two or more pieces. A fracture will sometimes form a deep fissure or crevice in the rock.

Fracture (geology) - Wikipedia

The fracture toughness (J_{IC}) was calculated from these measured quantities and the geometry of the specimen. Findings: Elastic plastic fracture mechanics was used for the first time to quantitatively account for plastic deformation of wet particulate materials. The linear elastic fracture mechanics approach previously used accounted for less ...

Elastic Plastic Fracture Mechanics investigation of ...

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Brittle fractures occur with no apparent deformation before fracture; ductile fractures occur when visible deformation does occur before separation. Fracture strength or breaking strength is the stress when a specimen fails or fractures. A detailed understanding of how fracture occurs in materials may be assisted by the study of fracture mechanics.

Fracture - wsrtjtyk.blogspot.com

On one hand, during manufacturing, food products are subjected to large strains that may cause severe deformation or even final fracture, affecting their structural integrity. On the other hand, large deformations and fracture processes are involved in biting and mastication and therefore, they are linked to consumer's acceptance and preference.

Deformation and fracture behavior of physical gelatin gel ...

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A comprehensive comparison of the mechanics predictions with the experiments shows that the model has captured the major material removal mechanisms and can be used to predict fibre deformation, fibre-matrix debonding, fibre fracture, subsurface damage and cutting forces in both traditional and vibration-assisted cutting.

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