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The building materials show a wide range of the mechanical properties ranging from hardness of diamond to the ductility of pure copper and the astonishing elastic behaviour of rubber. In a similar way, many materials behave quite differently when stressed in different ways.

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Volume 180, 15 October 2019, 107950. ... (SMPs), active chiral mechanical meta-materials are designed and fabricated, and maximum area changes up to 200% can be realized D. Attard, D. Calleja, J.N. GrimaOut-of-plane doming behaviour from constrained auxetics.

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The mechanical behaviour of joints is analysed, as is the effect of joining on the microstructural characteristics and mechanical properties of the base materials. Other features such as residual stress and distortion are addressed.

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Anvils made of single crystals of diamond, with the shape as shown in the figure, are used to investigate the behaviour of materials under very high pressures. Flat faces at the narrow end of the anvil have a diameter of 0.50 mm, and the wide ends are subjected to a compressional force of 50,000 N.

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The most frequently tested mechanical properties of sandwich composites are measurements of compressive strength [11, 20], three-point bending test [5, 21-23], and impact tests of a panel [7, 24]. In the case of materials used in military technology, additionally ballistic tests are conducted []. Discovering values of these properties measured in simulated conditions of the element's work ...

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