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In materials science, slip is the large displacement of one part of a crystal relative to another part along crystallographic planes and directions. Slip occurs by the passage of dislocations on close packed planes which are planes containing the greatest number of atoms per area and in close-packed directions (most atoms per length). Close-packed planes are known as slip or glide planes.

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Materials science and engineering is interdisciplinary and very important branch of study, which deals with the design and discovery of new materials, particularly solids. Materials science is one of the oldest forms of engineering and applied science and The material of choice of a given era is often a defining point (e.g. Stone Age, Bronze Age, Iron Age).

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Credit: Callister. If instead of applying a force perpendicular to the surface, we apply parallel but opposite forces on the two surfaces we are applying a shear stress. This is illustrated in the following figure: Shear Stress. Credit: Callister. Stress related to shear is torsional stress. If we hold one end of our cylinder fixed and twist the other as shown in the figure below, we are ...

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S.M. Sapuan, in Composite Materials, 2017. Biodegradable Polymers. Biodegradable polymers are polymers that degrade when they are left in the environment. The most popular biodegradable polymer is poly(l-lactic acid) (PLA) (Callister and Rethwisch, 2011). PLA can be used as packaging materials, as well as mulch film used in agriculture sector.

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Materials Engineering 25 San Jose State University LabNotes Semiconductor Resistivity LN 8-1 Temperature Dependence of Semiconductor Conductivity (Originally contributed by Professor E.D.H. Green) 4.0 Theory 4.1 Band Structure of a Semiconductor The band structure of semiconductors is such that the outermost band of electrons, the valence band, is completely full. If a voltage is applied ...

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From Callister (2007) b From Throne (2008) c Range for PS containing 40% glass fibers. There are six basic steps in a thermoforming process. First, the polymer sheet is loaded or fed into the apparatus. As mentioned, the polymer sheet is preformed by extrusion typically and hence it is more expensive than the starting material for polymer forming processes that are melt-based. The sheets ...

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[2] Materials Science and Engineering 8th edition, William D. Callister and David G. Rethwisch, p. 283-390, Wiley (2011). [3] ??????????????????p. 199-227, ?????? (2002).