

- | | |
|---|--|
| <p>1. amorphous a solid which is not crystalline, characterised by certain areas of short-range order</p> <hr/> <p>2. asphalt a composite material consisting of aggregates suspended in a matrix of bituminous material interspersed with air voids</p> <hr/> <p>3. basic oxygen steelmaking a technique used for making steel from molten pig iron and scrap</p> <hr/> <p>4. cantilever beams anchored at only one end, allowing for overhanging structures without external bracing</p> <hr/> <p>5. cast iron a non-malleable, iron-carbon that is brittle and relatively weak in tension</p> <hr/> <p>6. cement an ingredient of concrete made from calcined mixtures of clay-like and lime-bearing materials</p> <hr/> <p>7. ceramic a multi-phase material containing phases composed of compounds of metals and non-metals; typically hard and providing good insulation</p> <hr/> <p>8. composites a multiphase material formed from a combination of materials; remaining bonded, individual components combine to improve upon the original properties of the component materials</p> <hr/> <p>9. compression forces applied to an object that try to squash or reduce the object in size</p> <hr/> <p>10. concrete a combination of cement, fine aggregate (sand), coarse aggregate (blue metal) and water</p> <hr/> <p>11. corrosion a chemical reaction that results in the conversion of metallic materials into oxides, salts or other compounds</p> <hr/> <p>12. elastic material that deforms under stress but returns to its original size and shape when the stress is released, leaving no permanent deformation</p> <hr/> <p>13. factor of safety an idea that guides engineers to design structures within safe limits</p> <hr/> <p>14. geotextile natural and synthetic materials used to create a barrier between differing layers of earthworks</p> <hr/> <p>15. glass ceramic produced through the fusion of inorganic materials cooled to a hard condition without any crystalline structure developing</p> <hr/> <p>16. Hooke's law a principle stating that stress is directly proportional to strain within a material's proportional limit</p> <hr/> | <p>17. life cycle analysis a tool to support decision making for designers, engineers and manufacturers when assessing the impact of a product or process on the environment</p> <hr/> <p>18. method of joints a technique used for resolving forces in trusses by isolating individual joints</p> <hr/> <p>19. method of sections an approach to truss analysis isolation a section of the truss to be dealt with separately</p> <hr/> |
|---|--|