Testing_of_Materials_17x17_2008-10-21

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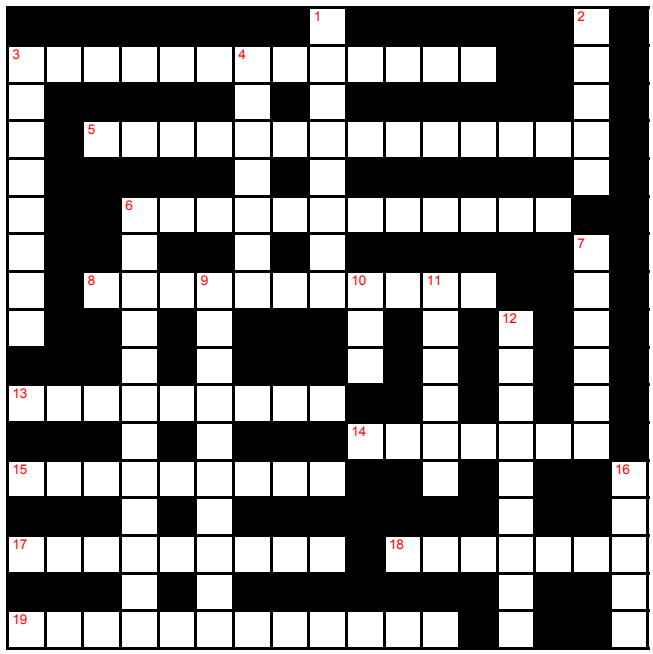

Across

3 Lateral contraction per unit breadth divided by the longitudinal extension per unit length. (8,5)

5 Energy required to fracture a specimen subjected to shock loading. (6,8)

6 Ratio of fatigue strength or fatigue limit to tensile strength. (7,5)

8 A method for determining the behaviour of materials under fluctuating loads. (7,4)

13 Fatigue limit. (9)

14 Firm but easily broken. (7)

15 Method for determining creep behaviour. (5,4)

17 The property of sticking or bonding together. (9)

18 The state of being weakened by long duration stress. (7)

19 A measure of a fiber's sensitivity to compressive and shear stresses. (4,8)

Down

1 The force applied to a unit area of surface. (8)

2 ____ Rockwell Hardness - Index of the resistance to surface penetration by a specified indenter under specified load. (5)

3 The property of being porous; being able to absorb fluids. (8)

4 Localized reduction of cross-sectional area of a specimen under tensile load. (7)

6 Visual test wherein a specimen is fractured and examined for grain size, etc. (8,4)

7 The amount of 3-dimensional space occupied by an object. (6)

9 A method for determining behaviour of material subjected to shock loading. (6,4)

10 The unit of linear density equal to the mass in grams per 1000 m of fiber, yarn, or other textile strand. (3)

11 Deformation of a physical body under the action of applied forces. (6)

12 The malleability of something that can be drawing into wires or hammered or rolled into thin sheets. (9)

16 A slow longitudinal deformation that occurs over a period of time when a material is subjected to constant stress at constant temperature. (5)