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Another type of simple stress is the bearing stress, it is the contact pressure between two bodies. Suspension bridges are good example of structures that carry these stresses. The weight of the vehicle is carried by the bridge deck and passes the force to the stringers (vertical cables), which in turn, supported by the main suspension cables.

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statically determinate beams, trusses, cables and arches, while in Chapter 7 stress and strain are discussed and stress-strain relationships established. The relationships between the elastic constants are then derived and the concept of strain energy in axial tension and compression introduced. This is then applied to the determination of the

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which gives $x_{50:738}$ m The force system is then equivalent to a vertically downward force of 21 kN acting through the centre of the cylinder together with a torque $T_{52130.738515.5}$ kNm

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Step-by-step solution: Step 1 of 3 • Mortar cracks begin to form in a continuous pattern arrangement, those micro cracks takes place when the critical load is applied up to 70 % to 80 %. • Unharmed portions will bear the load due to the crack formation and the stress-strain curve is extremely non-linear.

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Structural and Stress Analysis Second Edition by Dr. T.H.G. Megson Solutions Manual S o l u t i o n s t o C h a p t e r 2 P r o b l e m s S.2.1 (a) Vectors representing the 10 and 15 kN forces are drawn to a suitable scale as shown in Fig. S.2.1.

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