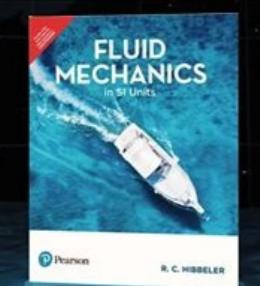
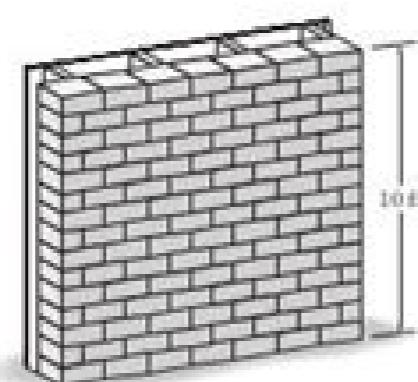


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1-3. A building wall consists of 12-in. clay brick and $\frac{1}{2}$ -in. fiberboard on one side. If the wall is 10 ft high, determine the load in pounds per foot that it exerts on the floor.



SOLUTION

From Table 1-3

12 in. clay brick:

$$(115 \text{ lb}/\text{ft}^2)(10 \text{ ft}) = 1150 \text{ lb}/\text{ft}$$

1/2 in. fiberboard:

$$(0.75 \text{ lb}/\text{ft}^2)(10 \text{ ft}) = 7.5 \text{ lb}/\text{ft}$$

$$\text{Total: } 1157.5 \text{ lb}/\text{ft} = 1.16 \text{ k}/\text{ft}$$

Ans.

3

Engineering Mechanics

STATICS

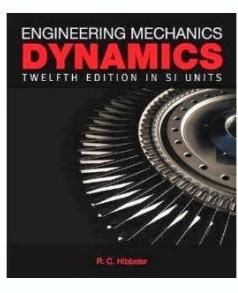
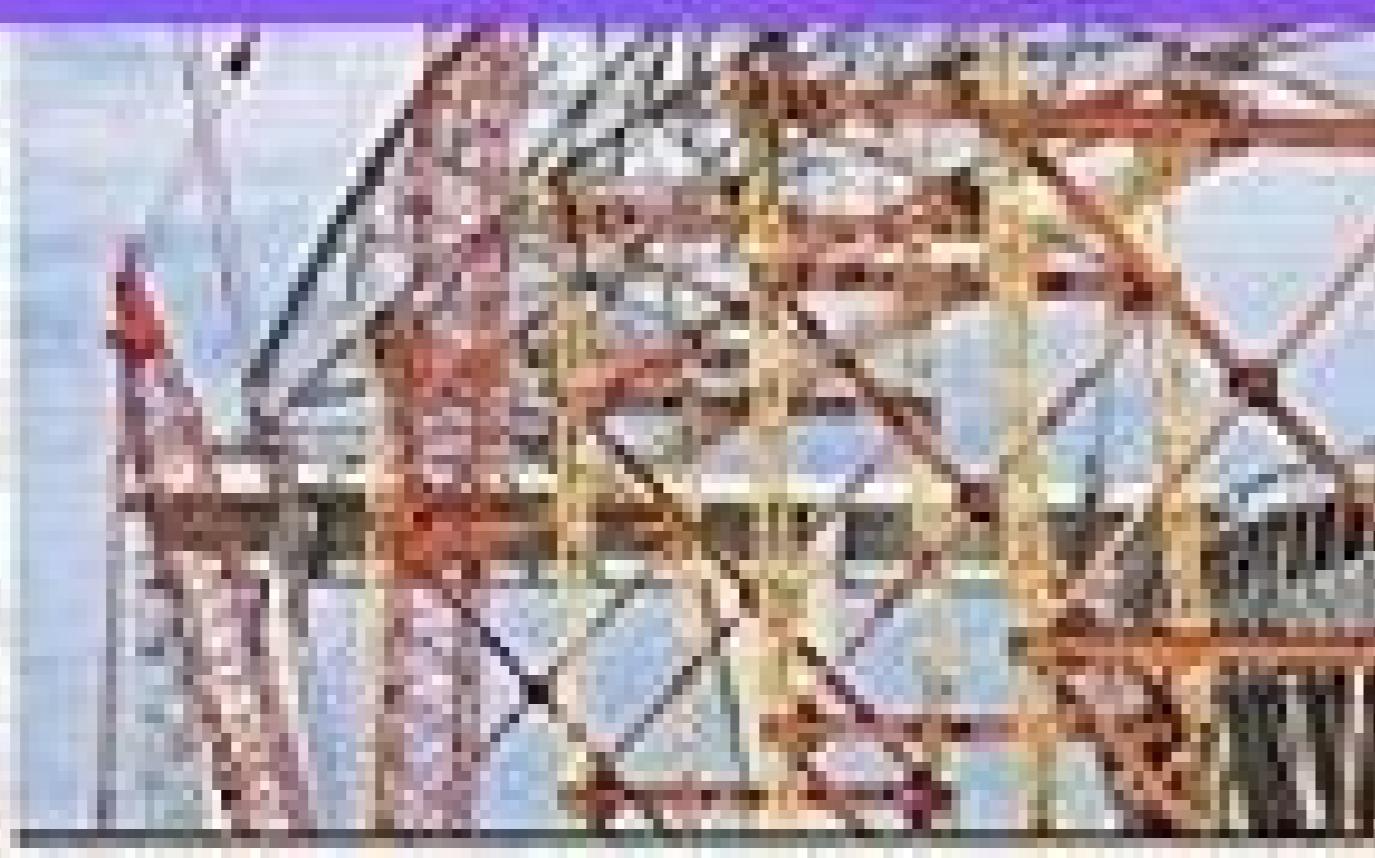
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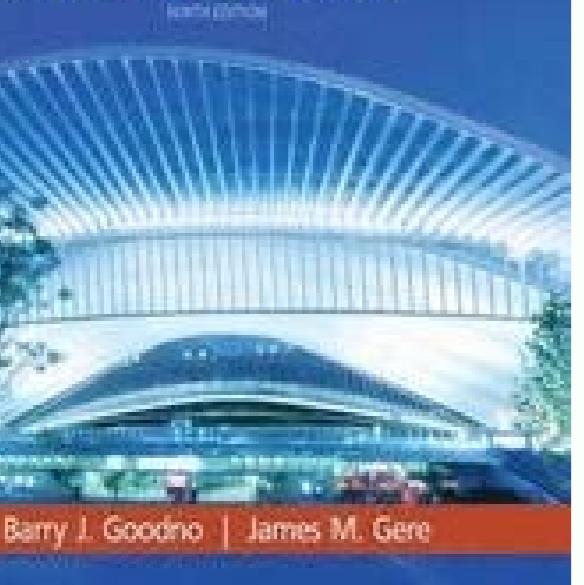
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DL = 5.63 kNm/m From Table 1-3, 150-mm stone concrete slab = (0.023 kNm² · mm) (150 mm) = 3.45 kNm/m² 100-mm cinder fill = (0.017 kNm² · mm) (100 mm) = 1.70 kNm² Metal lath plaster = 0.48 kNm² Total dead load = 5.63 kNm/m Ans. 1-3. The second floor of a light manufacturing building is constructed from a 150-mm-thick stone concrete slab with an added 100-mm, cinder concrete fill as shown. If the suspended ceiling of the first floor consists of metal lath and gypsum plaster, determine the dead load for design in kilo newton per square meter of floor area. 4. 4 SOLUTION Ans. W = 22.6 kNm/m³ W = (22.6 kNm³) (11.8 m) (0.2 m) - 5.4 m² (1.1 m) = 28.99 kN = 29.0 kN Ans. *1-4. The hollow core panel is made from plain stone concrete. Determine the dead weight of the panel. The holes each have a diameter of 100 mm. 5. 5 SOLUTION Ans. wD = 12.2 kNm Using the data tabulated in Table 1-3, 102-mm, clay brick: (1.87 kNm²) (5 m) = 9.35 kNm/m² 51 × 102mm, studs plastered on one side: (0.57 kNm²) (5 m) = 2.85 kNm/m² wB = 12.2 kNm Ans. 1-5. The wall is 5 m high and consists of 51 × 102 mm studs, plastered on one side. On the other side there is 102-mm clay brick. Determine the average load in kNm/m of length of wall that the wall exerts on the floor. 6. 6 SOLUTION Ans. DL = 30.6 kNm LL = 72.0 kNm From Table 1-3, DL = (0.017 kNm² · mm) (150 mm) (4 m) = 30.6 kNm Ans. From Table 1-4, LL = (6.00 kNm²) (4 m) (3 m) = 72.0 kNm Ans. 1-6. The floor of a light storage warehouse is made of 150-mm-thick cinder concrete. If the floor is a slab having a length of 4 m and width of 3 m, determine the resultant force caused by the dead load and that caused by the live load. 7. 7 SOLUTION Ans. w = 22.2 kNm/m From Table 1-3, 305-mm, clay brick: (5.51 kNm²) (4 m) = 22.04 kNm/m² 13-mm, fiberboard: (0.04 kNm²) (4 m) = 0.16 kNm Total: 22.20 kNm = 22.2 kNm Ans. 1-7. A building wall consists of 305-mm clay brick and 13 mm fiberboard on one side. If the wall is 4 m high, determine the load in kilonewton per meter that it exerts on the floor. 8. 85 © 2018 Pearson Education, Inc., 330 Hudson Street, NY, NY 10013. All rights reserved. This material is protected under all c 1-5. The precast floor beam is made from concrete having a specific weight of 23.6 kNm³. If it is to be used for a floor of an office building, calculate its dead and live loadings per foot length of beam. Ans. wB = 6.37 kNm/wL = 3.60 kNm. Solution The dead load is caused by the self-weight of the beam. wB = [(1.5 m)(0.15 m) + (0.15 m)(0.15 m)](23.6 kNm³) = 6.37 kNm = 6.37 kNm Ans. For the office, the recommended live load for design Table 1-4 is 2.4 kNm². Thus, wL = (2.40 kNm²)(1.5 m) = 3.60 kNm Ans. 1.5 m × 0.15 m 0.15 m 0.3 m *1-8. 9. 9 SOLUTION Ans. w = 5.15 kNm Cross-sectional area = 0.6 (0.15) + 1 2 (0.6 + 0.1799) (0.3) + 1 2 (0.1799 + 0.1) (0.1490) = 0.2278 m² Use Table 1-2. w = (22.6 kNm³) (0.2278 m²) = 5.149 kNm³ = 5.15 kNm Ans. 1-9. The "New Jersey" barrier is commonly used during highway construction. Determine its weight per meter of length if it is made from plain stone concrete. 10. 106 Ans. F = 173 kNm Solution From Table 1-3, DL = [0.015 kNm² # mm (150 mm)](7 m)(3 m) = 47.25 kNm From Table 1-4, LL = (6.00 kNm²)(7 m)(3 m) = 126 kNm Total Load: F = 126 kN + 47.25 kN = 173 kNm Ans. 1-10. The floor of a light storage warehouse is made of 150-mm-thick lightweight plain concrete. If the floor is a slab having a length of 7 m and width of 3 m, determine the resultant force caused by the dead load and the live load. 1-11. 11 SOLUTION Ans. wD = 12.9 kNm/m From Table 1-2, the specific weight of reinforced stone concrete and the cold-formed steel are C = 22.6 kNm³ and H = 77.3 kNm³, respectively. 1-11. The precast inverted T-beam has the cross section shown. Determine its weight per meter of length if it is made from reinforced stone concrete and twelve 20-mm-diameter cold-formed steel reinforcing rods. SOLUTION From Table 1-2, the specific weight of reinforced stone concrete and the cold-formed steel are C = 22.6 kNm³ and H = 77.3 kNm³, respectively. Reinforced stone concrete: [(0.225 m) (0.9 m) + (1.2 m) (0.3 m) 12 4 (0.02 m²)(22.6 kNm³) = 12.6273 kNm/m Cold-formed steel: 12 2 0.02m 4 (77.3 kNm³) = 0.2914 kNm/m wB = 12.6273 kNm/m + 0.2914 kNm/m = 12.92 kNm/m = 12.9 kNm/m Ans. wD = 12.9 kNm/m 12. 12 SOLUTION Ans. p = -1122 N/m² or -454 N/m² V = km 1000m 1h 200 55.56m / s h 1km 3600s / () = 1 1 () Kz = 1.0 (Flat terrain) Kd = 1.0 (wind load only) Ke = 1.0 qh = 0.613 Kz Kd Ke V2 = 0.613Kz (1.0) (1.0) (1.0) (55.56)2 = 1891.98 Kz From Table 1-5, for z = 1 = 9.1 m, Kz = 0.98 qh = 1891.98(0.98) = 1854.14 From the text, L B = 60 160 = so that Cp = -0.5 p = qGCp - qh (Gcp) p = 1854.14(0.85) (-0.5) - 1854.14(± 0.18) p = -1122 N/m² or -454 N/m² Ans. *1-12. Wind blows on the side of the fully enclosed hospital located on open flat terrain where V = 200 km/h. Determine the external pressure acting on the leeward wall, if the length and width of the building are 60 m and the height is 9.1 m. Take Ke = 1.0. 13. 13 SOLUTION Ans. p0-4.6 = 760 N/m² or 1427 N/m² p6.1 = 824 N/m² or 1492 N/m² p7.6 = 876 N/m² or 1543 N/m² p9.1 = 927 N/m² or 1595 N/m² V = km 1000m 1h 200 55.56m / s h 1km 3600s / () = 1 1 () Kz = 1.0 (Flat terrain) Kd = 1.0 (Wind load only) Ke = 1.0 qz = 0.613 Kz Kd Ke V2 = 0.613Kz (1.0) (1.0) (55.56)2 = 1891.98 Kz From Table 1-5, z Kz qz 0-4.6 0.85 1608.18 6.1 m 0.90 1702.78 7.6 m 0.94 1778.46 9.1 m 0.98 1854.14 Thus, p = qGCp - qh (Gcp) = q (0.85) (0.8) - 1854.14 (+0.18) = 0.68q ± 333.74 p0-4.6 = 0.68(1608.18) ± 333.74 = 760 N/m² or 1427 N/m² Ans. p6.1 = 0.68(1702.78) ± 333.74 = 824 N/m² or 1492 N/m² Ans. 1-13. Wind blows on the side of a fully enclosed 9.1 m high hospital located on open flat terrain where V = 200 km/h. Determine the design wind pressure acting over the windward wall of the building at the heights 0-4.6 m, 6.1 m, 7.6 m and 9.1 m. The roof is flat. Take Ke = 1.0. 14. 14 SOLUTION Ans. F = 41.4 kNm = 38 m/s Here, h = 6 m= 6.1 m Kz = 0.90 Kz = 1.0 Ke = 1.0 qz = 0.613 Kz Kd Ke v2 qh = 0.613(0.9) (1.0) (1.0) (38) = 796.65 N/m² F = qh Gct As G = 0.85 For 12m 3m B S = 4 and 3.6 s h = 0.5, table 1.6 gives Cf = 1.70. As = 12 (3) = 36 m² F = 796.65 (0.85) (1.70) (36) = 41.44 (103) N = 41.4 kN 1-14. Determine the resultant force acting on the face of the truss-supported sign if it is located on open flat terrain where V = 38 m/s. The sign has a width of 12 m and a height of 3 m as indicated. 15. 1522 © 2018 Pearson Education, Inc., 330 Hudson Street, NY, NY 10013. All rights reserved. This material is protected under all copyright laws as they currently exist. No portion of this material may be reproduced, in any form or by any means, without permission in writing fr Ans. pf = 0.968 kNm² Solution In central Illinois, pg = 0.96 kNm². Because the hospital is in an urban area, Ce = 1.2. pf = 0.7CeCts pf pg = 0.7(1.2)(1.0)(1.20)(0.96) = 0.968 kNm² Ans. 1-22. An urban hospital located in central Illinois has a flat roof. Determine the snow load in kNm² that is required to design the roof. 1-15. Academia.edu uses cookies to personalize content, tailor ads and improve the user experience. By using our site, you agree to our collection of information through the use of cookies. To learn more, view our Privacy Policy.

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