

*2-32 The cantilever footing is used to support a wall near its edge A so that it causes a uniform soil pressure under the footing. Determine the uniform distribution loads, w_A and w_B , measured in lb/ft at pads A and B , necessary to support the wall forces of 8000 lb and 20 000 lb.

$$\zeta + \sum M_A = 0; \quad -8000(10.5) + w_B(3)(10.5) + 20\,000(0.75) = 0$$

$$w_B = 2190.5 \text{ lb/ft} = 2.19 \text{ k/ft}$$

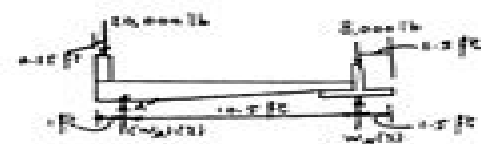
$$+\uparrow \sum F_y = 0; \quad 2190.5(3) - 28\,000 + w_A(2) = 0$$

$$w_A = 10.7 \text{ k/ft}$$

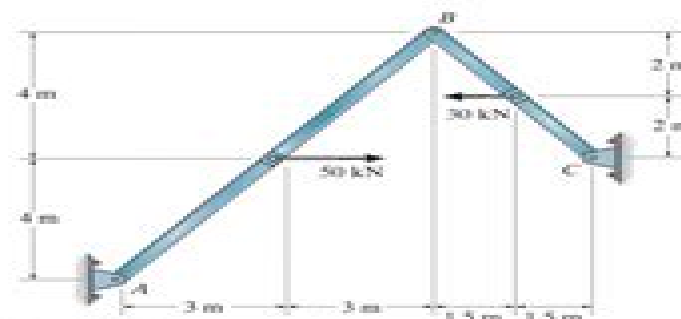


Ans.

Ans.



2-33. Determine the horizontal and vertical components of reaction acting at the supports A and C .



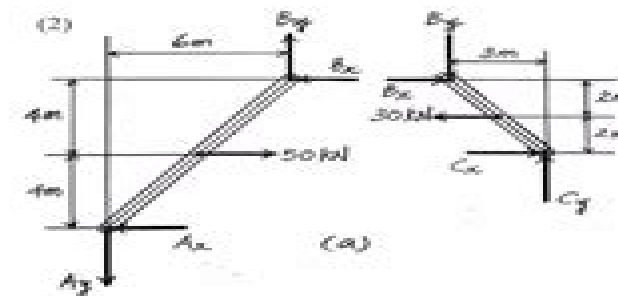
Equations of Equilibrium: Referring to the FBDs of segments AB and BC respectively shown in Fig. a ,

$$\zeta + \sum M_A = 0; \quad B_x(8) + B_y(6) - 50(4) = 0$$

$$\zeta + \sum M_C = 0; \quad B_y(3) - B_x(4) + 30(2) = 0$$

(1)

(2)



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structures numerical modeling and structural analysis structural health monitoring durability and sustainability management and conservation strategies for heritage structures and interdisciplinary projects and case studies This volume holds particular interest for all the community interested in the challenging task of preserving existing constructions enable great opportunities and also uncover new challenges in the field of structural analysis of historical and archeological constructions

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quality and reliability *Structural Analysis, Fourth Edition* R. C. Hibbeler, 1999 **The Cambridge Review**, 1887

Resources in Education, 1994-07 Scientific and Technical Books and Serials in Print, 1984 Applied Mechanics Reviews, 1970 Books in Print Supplement, 2002 Monthly Catalog of United States Government Publications, 1971

Design of Highway Bridges Richard M. Barker, Jay A. Puckett, 2021-04-27 The latest in bridge design and analysis revised to reflect the eighth edition of the AASHTO LRFD specifications *Design of Highway Bridges An LRFD Approach 4th Edition* offers up to date coverage of engineering fundamentals for the design of short and medium span bridges Fully updated to incorporate the 8th Edition of the AASHTO Load and Resistance Factor Design Specifications this invaluable resource offers civil engineering students and practitioners a comprehensive introduction to the latest construction methods and materials in bridge design including Accelerated Bridge Construction ABC ultra high performance concrete UHPC and Practical 3D Rigorous Analysis This updated Fourth Edition offers Dozens of end of chapter worked problems and design examples based on the latest AASHTO LRFD Specifications Access to a Solutions Manual and multiple bridge plans including cast in place precast concrete and steel multi span available on the Instructor's companion website From gaining base knowledge of the AASHTO LRFD specifications to detailed guidance on highway bridge design *Design of Highway Bridges* is the one stop reference for civil engineering students and a key study resource for those seeking engineering licensure through the Principles and Practice of Engineering PE exam **Computational Fluid and Solid Mechanics** K.J. Bathe, 2001-05-21 The MIT mission to bring together Industry and Academia and to nurture the next generation in computational mechanics is of great importance to reach the new level of mathematical modeling and numerical solution and to provide an exciting research environment for the next generation in computational mechanics Mathematical modeling and numerical solution is today firmly established in science and engineering Research conducted in almost all branches of scientific investigations and the design of systems in practically all disciplines of engineering can not be pursued effectively without frequently intensive analysis based on numerical computations The world we live in has been classified by the human mind for descriptive and analysis purposes to consist of fluids and solids continua and molecules and the analyses of fluids and solids at the continuum and molecular scales have traditionally been pursued separately Fundamentally however there are only molecules and particles for any material that interact on the microscopic and macroscopic scales Therefore to unify the analysis of physical systems and to reach a deeper understanding of the behavior of nature in scientific investigations and of the behavior of designs in engineering endeavors a new level of analysis is necessary This new level of mathematical modeling and numerical solution does not merely involve the analysis of a single medium but must encompass the solution of multi physics problems involving fluids solids and their interactions involving multi scale phenomena from the molecular to the macroscopic scales and must include uncertainties in the given data and the solution results Nature does not distinguish between fluids and solids and does not ever repeat itself exactly This new level of analysis must also include in engineering

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