

EXAMPLE 1.1

Determine the resultant internal loadings acting on the cross section at C of the cantilevered beam shown in Fig. 1-4a.

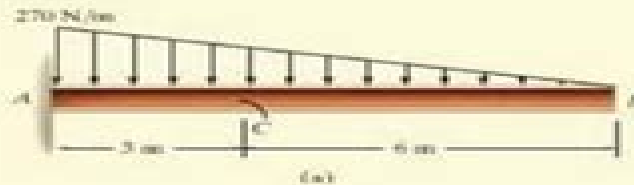


Fig. 1-4

SOLUTION

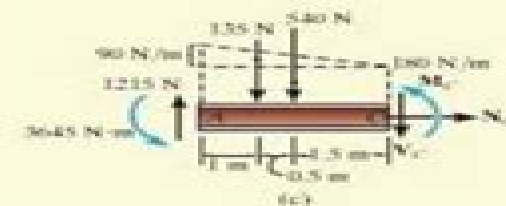
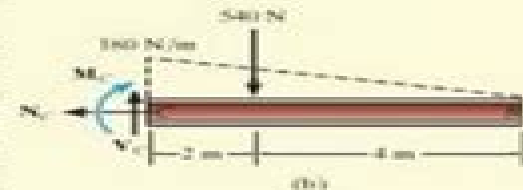
Support Reactions. The support reactions at A do not have to be determined if segment CB is considered.

Free-Body Diagram. The free-body diagram of segment CB is shown in Fig. 1-4b. It is important to keep the distributed loading on the segment until after the section is made. Only then should this loading be replaced by a single resultant force. Notice that the intensity of the distributed loading at C is found by proportion, i.e., from Fig. 1-4a, $w/6\text{ m} = (270\text{ N/m})/9\text{ m}$, $w = 180\text{ N/m}$. The magnitude of the resultant of the distributed load is equal to the area under the loading curve (triangle) and acts through the centroid of this area. Thus, $F = \frac{1}{2}(180\text{ N/m})(6\text{ m}) = 540\text{ N}$, which acts $\frac{1}{3}(6\text{ m}) = 2\text{ m}$ from C as shown in Fig. 1-4b.

Equations of Equilibrium. Applying the equations of equilibrium we have

$$\begin{aligned}
 \rightarrow \Sigma F_x &= 0; & -N_C &= 0 \\
 & & N_C &= 0 & \text{Ans.} \\
 +\uparrow \Sigma F_y &= 0; & V_C - 540\text{ N} &= 0 \\
 & & V_C &= 540\text{ N} & \text{Ans.} \\
 \curvearrowright \Sigma M_C &= 0; & -M_C - 540\text{ N}(2\text{ m}) &= 0 \\
 & & M_C &= -1080\text{ N}\cdot\text{m} & \text{Ans.}
 \end{aligned}$$

NOTE: The negative sign indicates that M_C acts in the opposite direction to that shown on the free-body diagram. Try solving this problem using segment AC , by first obtaining the support reactions at A , which are given in Fig. 1-4c.



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Annelies Wilder-Smith



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Craig's Soil Mechanics Jonathan Knappett, R.F. Craig, 2019-10-11 Craig's Soil Mechanics continues to evolve and remain the definitive text for civil engineering students worldwide It covers fundamental soil mechanics and its application in applied geotechnical engineering from A to Z and at the right depth for an undergraduate civil engineer with sufficient extension material for supporting MSc level courses and with practical examples and digital tools to make it a useful reference work for practising engineers This new edition now includes Restructured chapters on foundations and earthworks the latter including new material on working platforms and collapse of underground cavities sinkhole formation New mobilised stress based deformation methods that can straightforwardly be used with both linear and non linear soil stiffness models and field measurements of shear wave velocity for serviceability limit state design Extended sets of correlations for making sensible first estimates of soil parameters adding deformation based parameters for broader coverage than the Eighth Edition Extended section on robust statistical selection of characteristic soil parameters Greater use of consolidation theory throughout in determining whether actions processes and laboratory in situ tests are drained or undrained Extended chapter on in situ testing adding the Flat Dilatometer Test DMT and interpretation of consolidation parameters from CPTU and DMT testing An updated section on pile load testing Additional worked examples and end of chapter problems covering new material with fully worked solutions for lecturers The electronic resources on the book's companion website are developed further with the addition of two new spreadsheet numerical analysis tools and improvement of existing tools from the Eighth Edition Using these readers can take real soil test data interpret its mechanical properties and apply these to a range of common geotechnical design problems at ultimate and serviceability limiting states

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Advanced Materials Vince Bailey, Tom Haulik, 1993

The Sciences James Trefil, Robert M. Hazen, 2016-09-13 This text is an unbound three hole punched version The Sciences An Integrated Approach Binder Ready Version 8th Edition by James Trefil and Robert Hazen uses an approach that recognizes that science forms a seamless web of knowledge about the universe This text fully integrates physics chemistry astronomy earth sciences and biology and emphasizes general principles and their application to real world situations The goal of the text is to help students achieve scientific literacy Applauded by students and instructors for its easy to read style and detail appropriate for non science majors the eighth edition has been updated to bring the most up to date coverage to the students in all areas of science

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Society for Testing and Materials,1974 *Railroad Age Gazette* ,1909 **The Aeronautical Journal** ,1999 British
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