

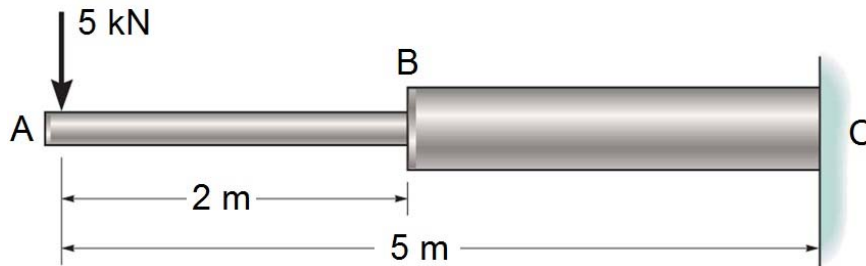
King Fahd University of Petroleum & Minerals
DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING
CE 203 STRUCTURAL MECHANICS I (Section 2)
First Semester 1434-35 / 2013-14 (132)

HOMEWORK NO. 14

- **Textbook Sections Covered:** Chapter 12.1 – 12.3 (Deflection of Beams)
 - **DUE DATE:** Not for submittal , but should be practiced before Final Exam
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1 - Solve problem F12-5 (*not 12-5*) , page 586 in your textbook. Use section 12.2 to solve.

2- The given beam is made of two parts that have the same E . Part AB has a moment of inertia I_0 , while part BC has a moment inertia $2I_0$. Determine the vertical deflection at point B in terms of EI_0 . Use section 12.2 to solve.



3 - Solve problem 12-46 in your textbook. Use section 12.3 to solve.

4 - Solve problem 12-47 in your textbook. Use section 12.3 to solve.

5 - Solve problem 12-54 in your textbook. Use section 12.3 to solve.