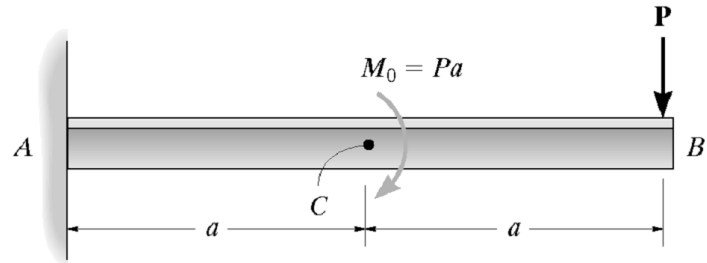


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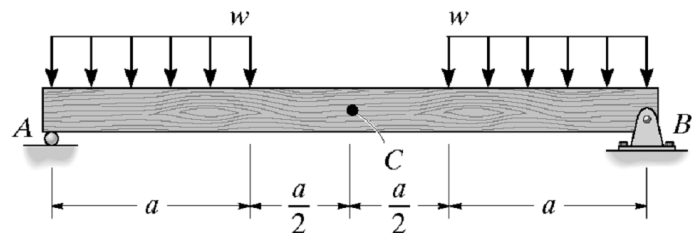
Student ID:

M15: Bending Deflections by Moment-Area Theorems

1. Determine the slope at C and the deflection at B . EI is constant. 【试求图示悬臂梁截面 C 的转角和截面 B 的挠度。设弯曲刚度 EI 为常数。】



2. The beam is subjected to the loading shown. Determine the slope at B and deflection at C . EI is constant. 【试求图示简支梁截面 B 的转角和截面 C 的挠度。设弯曲刚度 EI 为常数。】

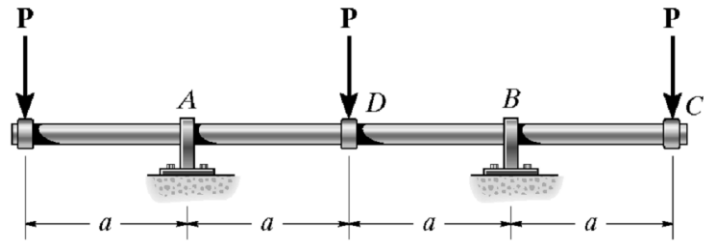


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M15: Bending Deflections by Moment-Area Theorems

3. Determine the slope at B and the displacement at C . The bearings at A and B exert only vertical reactions on the shaft. EI is constant. 【试求图示外伸梁截面 B 的转角和截面 C 的挠度。设弯曲刚度 EI 为常数。】



4. Determine the magnitude of force F in terms of P that must be applied at the end of the overhang C so that the deflection at C is zero. EI is constant. 【欲使图示外伸梁截面 C 的挠度为零，试求集中荷载 F 和 P 之间的关系。设弯曲刚度 EI 为常数。】

