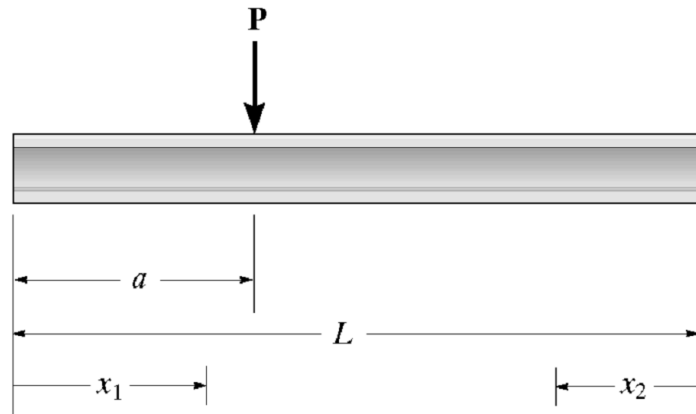


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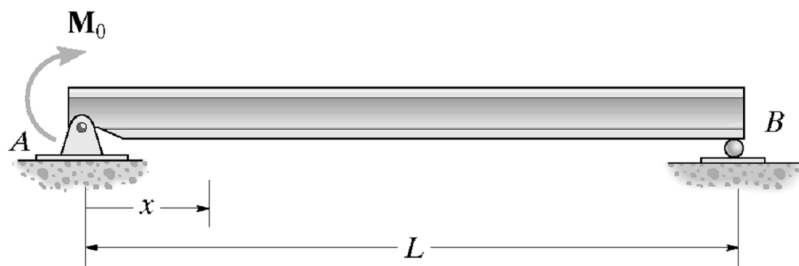
Student ID:

M11: Bending Deflections by Integration

1. Determine the equations of the elastic curve using the  $x_1$  and  $x_2$  coordinates.  $EI$  is constant. 【运用坐标  $x_1$  和  $x_2$  求图示梁的挠曲线。设弯曲刚度  $EI$  为常数。】



2. Determine the equation of the elastic curve for the beam using the  $x$  coordinate. Specify the slope at  $A$  and the maximum deflection.  $EI$  is constant. 【运用坐标  $x$  求图示梁的挠曲线，并求截面  $A$  的转角和梁中最大挠度及其所在截面。设弯曲刚度  $EI$  为常数。】

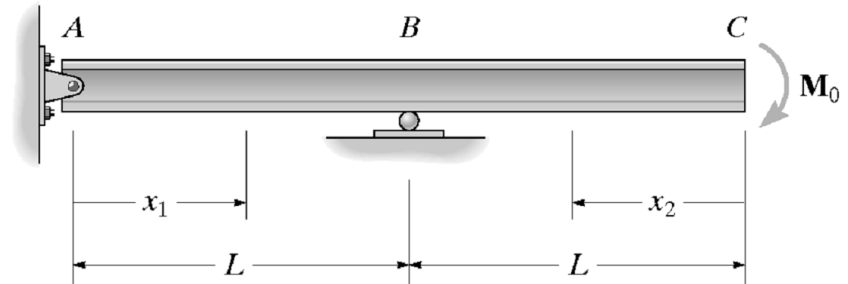


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Student ID:

M11: Bending Deflections by Integration

3. Determine the equations of the elastic curve using the coordinates  $x_1$  and  $x_2$ , and specify the deflection and slope at  $C$ .  $EI$  is constant. 【运用坐标  $x_1$  和  $x_2$  求图示梁的挠曲线，并求截面  $C$  的挠度和转角。设弯曲刚度  $EI$  为常数。】



4. Determine the equations of the elastic curve using the coordinates  $x_1$  and  $x_2$ , and specify the deflection and slope at  $B$ .  $EI$  is constant. 【运用坐标  $x_1$  和  $x_2$  求图示梁的挠曲线，并求截面  $B$  的挠度和转角。设弯曲刚度  $EI$  为常数。】

