

Example Problem - Le 14

17.95 A 30-g bullet is fired with a horizontal velocity of 400 m/s into a 4-kg wooden beam AB suspended from a pin support at A. Knowing that $h=600$ mm and that the beam is initially at rest, determine:

- the velocity of the mass center G of the beam immediately after the bullet becomes embedded.
- the impulsive reaction at A, assuming that the bullet becomes embedded in 1 ms

(taken from *Vector Mechanics for Engineers, 5th Edition* by Beer & Johnston)

