

**Answer on Question #58792-Physics-Classical Mechanics**

A  $m = 5 \text{ kg}$  shot putt is thrown with an average force of  $F = 500 \text{ N}$  applied for a period of  $\Delta t = 0.3 \text{ s}$ . What is the magnitude of the impulse?

**Solution**

The magnitude of the impulse is given by the formula:

$$p = F\Delta t = 500 \text{ N} \cdot 0.3 \text{ s} = 150 \text{ Ns.}$$

**Answer: 150 Ns.**