

Question:18805

A tow rope is used to pull a 1750-kg car, giving it an acceleration of  $1.35 \text{ m/s}^2$ . What force does the rope exert?

Solution:

According to the First Newton's Law:

$$F = ma, \text{ where } F - \text{force, } m - \text{mass, } a - \text{acceleration}$$

$$F = 1750 * 1.35 = 2362.5 \text{ N}$$

**Answer: 2362.5 N**