Answer on Question 64762, Physics, Other

Question:

How much force must a 20000 kg rocket develop to accelerate 100 cm/s^2 ?

Solution:

We can find how much force must a 20000 kg rocket develop to accelerate 100 cm/s^2 from the Newton's Second Law of Motion (100 $cm/s^2 = 1 m/s^2$):

$$F = ma = 20000 \ kg \cdot 1 \ \frac{m}{s^2} = 20000 \ N.$$

Answer:

F = 20000 N.

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