

Impulse and Momentum

Problem Solving:

1. A supersonic bomber, with a mass of 21,000 kg, departs from its home airbase with a velocity of 400 m/s due east. What is the jet's momentum?
2. Now, let's assume the jet drops its payload and has burned up most of its fuel as it continues its journey to its destination air field.
If the jet's new mass is 16,000 kg, and due to its reduced weight the pilot increases the cruising speed to 550 m/s, what is the jet's new momentum?
3. A 588 N halfback is moving eastward at 9 m/s. What is their Momentum?
4. Let's assume the bomber from the previous problem, which had a momentum of 8,800,000 kg·m/s east, comes to a halt on the ground. What impulse is applied?
5. If the football halfback experienced a force of 800 N for 0.9 seconds to the north, determine the impulse.

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ALAN H. SCHOENFELD



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