

# 10 POINTS !!! Why is it risky to build something whose natural frequency can be matched by external vibrations?

## Answer 1

Answer:

It is risky to build something whose natural frequency is matched with external vibrations because of ; The **effect of resonance**

When an **object constructed** has a natural **frequency** which is equal to the frequency of a nearby **external vibration**, the amplitude of the vibration of the object will **increase** due to the **resonance effect** which occurs because the external frequency matches up with the **natural frequency** of the constructed object.

The **negative effect** of resonance is the increase in the amplitude of the vibration of the object which might lead to the partial or complete **collapse** of the **constructed object**.

Hence we can **conclude** that It is **risky** to build something whose **natural frequency** is matched with external vibrations because of ; The **effect of resonance**

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## Answer 2

Answer:

**Answer: Most objects have at least one natural frequency of vibration. If a nearby object vibrates at the same frequency, it can cause resonance. Resonance is an increase in amplitude of a vibration that occurs when external vibrations match an object's natural frequency.**

**Explanation:**

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