



SESSION 2: SCIENCE
POST-TEST EXAMINATION (40
items)

I. SCIENCE ASSESSMENT

PHYSICS

- John is driving a car when a man suddenly crosses the road. He honks his horn and 3 seconds later, John hears the echo from a nearby wall. If the speed of sound is 343 m/s, how far away is the wall?
 - 212.5 meters
 - 313.5 meters
 - 414.5 meters
 - 514.5 meters.

Explanation:

GIVEN:

$$t = 3 \text{ sec}$$

$$v_{\text{sound}} = 343 \text{ m/s}$$

ASKED:

$$d = ?$$

FORMULA:

$$d = vxt$$

SOLUTION:

An echo occurs when a sound wave travels from the source, hits an obstacle (the wall), and is reflected to the source. The total time John takes to hear the echo is the time it takes for the sound to travel to the wall and return to him.

$$2d = vxt$$

Substitute the values:

$$2d = (343 \frac{\text{m}}{\text{s}} \times 3\text{s})$$

$$d = \frac{(343 \frac{\text{m}}{\text{s}} \times 3\text{s})}{2}$$

$$d = 514.5 \text{ meters}$$

- Jeremy is comparing two objects. The first weighs 4 kg and has a force of 16 N applied to it, while the second weighs 5 kg and has a force of 10 N applied. Which object will experience greater acceleration?
 - The 4 kg body
 - The 5 kg body
 - Both have the same acceleration
 - None of them

Explanation:

According to Newton's Second Law of Motion, which states that acceleration equals the force applied divided by the object's mass. For the first object, which has a mass of 4 kg and a force of 16 N applied, the acceleration is calculated as 16 N divided by 4 kg, resulting in an acceleration of 4 m/s². For the second object, with a mass of 5 kg and a force of 10 N applied, the acceleration is 10 N divided by 5 kg, resulting in an acceleration of 2 m/s². Therefore, the 4 kg body experiences greater acceleration.

- Jean is trying to loosen a bolt using a wrench. She applies a force perpendicular to the pivot point at a distance of 0.2 meters from the pivot point. How much torque does Sarah generate if she applies a force of 500 N?
 - 160 Nm
 - 140 Nm
 - 120 Nm
 - 100 Nm

Explanation:

GIVEN:

$$r = 0.2 \text{ m} \quad ;$$

$$F = 500 \text{ N} \quad ;$$

$$\theta = 90 \text{ degrees}$$

ASKED: $F = ?$

FORMULA: $\tau = rF\sin\theta$

SOLUTION:

$$\tau = rF\sin\theta$$

$$\tau = rF\sin\theta$$



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R Barnett



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web lenslet arrays are modeled using the user defined surface basically the ray trace determines which segment of the array is struck then uses the local lens curvature to determine the refraction the sample source code and dll are provided as us array c and us array dll respectively

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web zemax 1 introduction microlens arrays have been applied in many electro optical and micro optical systems such as flexible light field smart phones¹ solar concentrators² data storage³ and integral imaging 3d displays⁴ etc these microlens arrays are typically composed of microlens cells arranged in a deterministic pattern⁵ the

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web i set up a hybrid model including sc source and focusing lens and nsc microlens array lenslet array 1 to generate a uniform line transversely perpendicular to beam propagation in a certain distance now i want to optimize the microlens toric and aspheric coeff parameteres to achieve the best line uniformity and smallest line width

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web sep 24 2020 microlens arrays are the key component in imaging systems because the systems exhibit some excellent optical properties such as large fov angles and low aberration and distortion⁶ zemax llc

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web mar 31 2021 zemax llc thanks dr reinhard voelkel of suss microoptics sa for the experimental data used in this article

setting up the initial design this article describes a commercial fiber coupler which couples two pieces of corning smf 28e fiber using suss microoptics fc q 250 microlens arrays the manufacturers data is as follows

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web nov 3 2015 with optical sensor arrays tiny lens systems serve to focus and concentrate the light onto the photodiode surface instead of allowing it to fall on non photosensitive areas of the pixel device fill factor area occupied by the microlens arrays mostly the lens shape is cylindrical or spherical array size strongly depends on the applications

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web oct 16 2021 help me please to model the lens array in sequential mode i mean some lens no microlens in the same plane on the circle radius icon best answer by ray the sequential dll is quite easy to modify non sequential are more complex there are more array types available in this forum post community zemax