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1) What is the effect of increasing flow coefficient (Φ) in an axial flow compressor on blade loading coefficient (Ψ)?

- Published on 16 Sep 15

- a. Blade loading coefficient (Ψ) increases
- b. Blade loading coefficient (Ψ) decreases
- c. Blade loading coefficient (Ψ) remains constant
- d. Unpredictable

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ANSWER: Blade loading coefficient (Ψ) decreases

Explanation:

No explanation is available for this question!

2) What is the formula for blade loading coefficient (Ψ) for an axial flow compressor?

Where,

W = Workdone

C_f = Axial flow velocity

C_b = Blade velocity

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- a. $\Psi = W / (C_f)^2$
- b. $\Psi = (C_f)^2 / W$
- c. $\Psi = W / (C_b)^2$
- d. $\Psi = (C_b)^2 / W$

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ANSWER: $\Psi = W / (C_b)^2$

Explanation:

No explanation is available for this question!

3) What is the effect of increasing number of stages in axial flow compressor on the mean work input factor (Ψ_w)?

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- a. Mean work input factor (Ψ_w) decreases
- b. Mean work input factor (Ψ_w) increases
- c. Mean work input factor (Ψ_w) remains constant
- d. Unpredictable

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ANSWER: Mean work input factor (Ψ_w) decreases

Explanation:

No explanation is available for this question!

4) What is the ratio of the actual work absorbed by an axial flow compressor to the theoretical work called?

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- a. Work input factor
- b. Workdone factor
- c. Both a. and b.
- d. None of the above

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ANSWER: Both a. and b.

Explanation:

No explanation is available for this question!

5) _____ can be defined as the ratio of the pressure rise in rotor blades to the pressure rise in stages in an axial flow compressor.

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- a. Degree of pressure
- b. Degree of reaction
- c. Pressure ratio
- d. Reaction ratio

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ANSWER: Degree of reaction

Explanation:

No explanation is available for this question!

6) What is the ratio of isentropic work to Euler work in an centrifugal compressor called?

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- a. Work coefficient
- b. Velocity coefficient
- c. Pressure coefficient
- d. Flow coefficient

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ANSWER: Pressure coefficient

Explanation:

No explanation is available for this question!

7) The ratio of actual whirl velocity to the ideal whirl velocity in the centrifugal compressor is called as _____.

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- a. velocity factor
- b. slip factor
- c. work factor
- d. none of the above

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ANSWER: slip factor

Explanation:

No explanation is available for this question!

8) The diffuser blades are kept _____ the number of impeller blades .

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- a. 1/10 th of
- b. 1/3 rd of
- c. 10 times
- d. 3 times

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ANSWER: 1/3 rd of

Explanation:

No explanation is available for this question!

9) Vaneless diffusers are suitable for _____.

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- a. only low pressure rise
- b. only high pressure rise
- c. both low as well as high pressure rise

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ANSWER: only low pressure rise

Explanation:

No explanation is available for this question!

10) Angular momentum of gas in the free vortex of vaneless diffuser _____.

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- a. increases
- b. decreases
- c. remains constant
- d. becomes unpredictable

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ANSWER: remains constant