

АНГЛІЙСЬКА МОВА

Методичні вказівки і комп'ютерні тести
для самостійної роботи студентів I курсу
Аерокосмічного інституту

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Свідчення про внесення до Державного реєстру ДК № 977 від 05.07.2002

- Exercise 9. Make up sentences using the given words.
1. Stages / made / this / of / compressor / is / 2 / low-pressure / up.
 2. Rotors / separate / are / two / mounted / compressor / on / shafts.
 3. Shaft / hollow / the / rotor / is / rear.
 4. Air / direction / vanes / to / give / the / low / guide / proper.
 5. Section / air / from / low-pressure / the / section / flows / the / high-pressure / to.
 6. Stator / cylinders / the / axial-flow / consists / compressor / of / half / two.
 6. Low / and / durable / it / centrifugal / is / cost / to / compressor / the / easy / is / manufacture / and.

Exercise 10. True or false. Write down O.K. if the statement is true. Write down the correct variant if the statement is false.

1. The function of the compressor is to expand the air passing through the engine and to provide a required pressure ratio.
2. There are three basic types of compressors: the centrifugal type, the axial-single rotor type and the axial split compressor type.
3. The axial-split compressor works very well in smaller turbo-prop and turbojet engines.
4. Axial-split compressor can provide pressure ratio 5:1.
5. A rotor is mounted by means of two bearings: the ball and roller bearings.
6. The centrifugal compressor operates by taking in the inside air and rotating it by means of the impeller.
7. The efficiency of the single-stage centrifugal compressor is relatively low.
8. Any type of a compressor consists of a rotor and stator.
9. The number of stages in an axial compressor varies with the engine design.
10. The rotor of axial compressor consists of several bladed disks welded to the shaft.
11. The rotor blades are used to redirect the air from one stage to the next.
12. The high pressure rotor causes pressure rise in the air leaving the low pressure rotor.