

**1. What mostly characterize safe control systems?****X Redundancy****X Backuping****X Safer design**☐ Office PC☐ SoftPLC**2. Complete the sentence!**

~~(Tyristor control systems)~~  
**Frequency Converters**  
~~Softstarters~~  
~~Pneumatic controllers~~

are used for smooth starting and control of asynchronous motors.

**3. Choose the correct option!**

For learning of a multilayer Neural Network, we use \_\_\_\_\_ **a** \_\_\_\_\_

- a) **Back Propagation Algorithm**
- b) High speed evaluation
- c) Cross learning algorithm
- d) Forward Propagation Algorithm

Expert systems are not used for \_\_\_\_\_ **c** \_\_\_\_\_

- a) Diagnostics
- b) Prediction
- c) Numerical computation**
- d) Interpretation

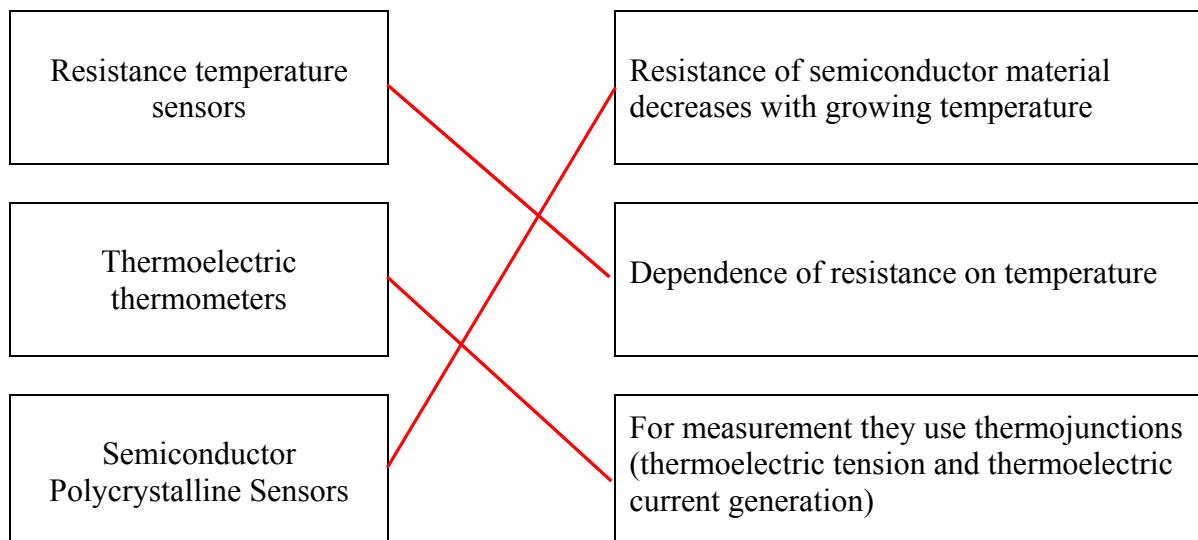


**4. Explain the term**

Heat Flow Meter operation is based on – **processing of energy balance during heat sharing from electrically heated heating elements through the flowing fluid, during which the distribution of temperature changes**

**5. Complete the sentence!**

DCS systems are typically characterized by  $\left( \begin{array}{l} \text{distributed control construction} \\ \text{wide use of intranet connections} \\ \text{strict hierarchical construction} \end{array} \right)$ .

**6. Assign the terms from the left column to the corresponding ones on the right!****7. Mark the correct statements:** Pneumatic Actuators are classified as

**X Membrane type**

☐ Electric type

☐ Semihydraulic type

**X Piston type**

**Erasmus+**

This project has been funded with support from the European Commission.

This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

**8. Place the correct elements into the block!**

PID has the following parts:

**derivative**  
**integral**  
**proportional**

~~inductive~~    **integral**    ~~predictional~~    **proportional**    **derivative**    ~~directive~~

---



Erasmus+

This project has been funded with support from the European Commission.

This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.