

1. What mostly characterize safe control systems?

- ☐ Redundancy
 - ☐ Backuping
 - ☐ Safer design
 - ☐ Office PC
 - ☐ SoftPLC
-

2. Complete the sentence!

$\left(\begin{array}{l} \text{Tyristor control systems} \\ \text{Frequency Converters} \\ \text{Softstarters} \\ \text{Pneumatic controllers} \end{array} \right)$ 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) Back Propagation Algorithm
- b) High speed evaluation
- c) Cross learning algorithm
- d) Forward Propagation Algorithm

Expert systems are not used for _____

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



4. Explain the term

Heat Flow Meter operation is based on – _____

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!

Resistance temperature
sensors

Resistance of semiconductor material
decreases with growing temperature

Thermoelectric
thermometers

Dependence of resistance on temperature

Semiconductor
Polycrystalline Sensors

For measurement they use thermojunctions
(thermoelectric tension and thermoelectric
current generation)

7. Mark the correct statements: Pneumatic Actuators are classified as

- ☐ Membrane type
- ☐ Electric type
- ☐ Semihydraulic type
- ☐ Piston type

8. Place the correct elements into the block!

PID has the following parts:

inductive integral predictional proportional derivative directive

