1. What mostly characterize safe control systems?

**x** **Redundancy**

**x Backuping**

**x** **Safer design**

□ Office PC

□ SoftPLC

1. Complete the sentence!

are used for smooth starting and control of asynchronous motors.

1. Choose the correct option!

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

1. **Back Propagation Algorithm**
2. High speed evaluation
3. Cross learning algorithm
4. Forward Propagation Algorithm

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

1. Diagnostics
2. Prediction
3. **Numerical computation**
4. Interpretation
5. 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**

1. Complete the sentence!

DCS systems are typically characterized by .

1. 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) |

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

**x Membrane type**

□ Electric type

□Semihydraulic type

**x Piston type**

1. Place the correct elements into the block!

PID has the following parts:

**derivative**

**integral**

**proportional**

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