

SNT-FLCT Fuzzy Logic Control Trainer



The open design of the SNT-FLCT allows the range of fuzzy logic and control experiments to be developed and extended as required to suit the specific interests of the user. In the case of fuzzy control, any external system with compatible inputs and outputs may be considered for control using fuzzy logic via the SNT-FLCT.

FEATURES

1. Teaching aid to take the mystery out of fuzzy logic. May also be used by practising engineers for fuzzy logic familiarisation.
2. Unique hardware module oriented for implementing fuzzy systems using fuzzy system elements.
3. Students learn by defining fuzzy parameters membership function, Rules to get results.
4. Compatible with Fruit-AX fuzzy system software allow user to define membership functions, graphs, setup rules, and facility to transfer the data on SNT-FLCT.
5. Fuzzy systems complemented by links with Fruit-AX software to allow smooth progression to the more usual digital computer form.
6. Allows rapid implementation and use of fuzzy systems.
7. Manual contains full tutorial information for selfinstruction, from an introduction into the basic principles of fuzzy logic to performing practical real time fuzzy control experiments using control models or other compatible equipment.

EXPERIMENTS

The experimental manual supplied with SNT-FLCT contains a series of structured experiments which lead the student from an introduction into fuzzy principles and circuits to real time fuzzy control.

The experiments cover the topics of:

1. Fuzzy membership
2. Defuzzification
3. Fuzzy logic operators

Case studies with practical fuzzy control of external system

1. Thermal control
2. Fan Control
3. AC motor control
4. Solenoid valve control
5. Relay control
6. Environmental control using humidity & temperature parameter