

INTERACTING, NON-INTERACTING SYSTEM TRAINER

MODEL: BSP21



FEATURES

- Compact and sturdy construction
- Easy and versatile operation
- Self-contained system

DESCRIPTION

Interacting, Non-interacting System Trainer is designed to study dynamic response of system. Level is taken as a parameter to carry out these studies.

Different models are available in which user can select different configuration that suits their requirements.

Water is pumped from a sump tank located at the bottom of the equipment to an overhead tank. From the overhead tank water flows to either single tank or two interacting tank or two non-interacting tanks or three interacting/non-interacting tanks, depending on the model selected.

Flow can be measured by Rotameter. Level tanks are graduated and transparent which helps trainees measure the tank level.

systems can be studied.

INSTRUCTION MANUAL

Self-explanatory operating manuals are provided with each system. Detailed theory as well as practical exercises is also included in the manual

LIST OF EXPERIMENT

- Step response of single capacity system.
- Step response of first order systems arranged in non-interacting mode.
- Impulse response of first order systems arranged in non-interacting mode.
- Step response of second order systems arranged in interacting mode.
- Impulse response of second order systems arranged in non-interacting mode

NOTE: Experiments vary depending on the model selected

COMPONENTS

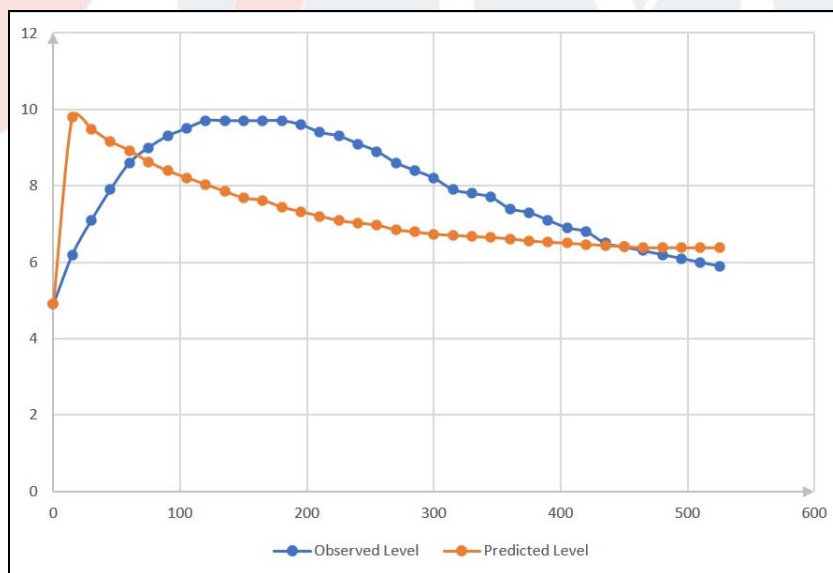
1. Sump Tank, 20 lit capacity
2. Overhead tank: Capacity 5 litres
3. Process Tank(s): 3.5 lit capacity
4. Rotameter
5. Centrifugal water pump
6. Stopwatch
7. Measuring jar
8. Piping
9. Structure

SERVICES REQUIRED

- Electric supply
- Water

MODELS

- BSP21-A: Single Tank System
- BSP21-B: Two Tank Interacting System
- BSP21-C: Two Tank Non-Interacting System
- BSP21-D: Universal Interacting and Non-Interacting System



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