

Shower

About the program:

The program is a demonstration of a control system, where a man in the shower controls the temperature of the water. To be more precise: the combination of cold and hot water. The regulation is based on negative feedback. The man senses the temperature of the water. He compares it to what temperature is pleasant for him and if he detects a change, he changes the position of the cold or hot water valve.

The effect has a dead time dependent on the length of the pipeline and the water's flow rate. If this man does not take into account the intervention, the temperature of the water is will not be a pleasant one. The regulation may become unstable.

How to use the program:

- The water can be cooled with the „Cooling” and warmed by the „Warming” buttons.
- The combination of cold/hot water is shown over the buttons in percentage form.
- With the „Shivering” button, the man shows a shivering effect. This also happens when the water is too cold.