

Set for Team 13

Construct the necessary truth table(s), Boolean functions and Simulation file with the appropriate IC diagram comprising the basic logic gates that represent the following scenario:

In a water purification plant, there are 4 individual water level indicator sensors installed. As a hardware design engineer if you are asked to design a hardware array that will start emergency alarm if the water crosses two of the aforementioned sensors, how are you supposed to implement the combinational logic with a Boolean function?