MUNIR MUSLEEMA MOFEHINTOLUWA

CHEMICAL ENGINEERING

14/ENG01/020

CHE 531

ASSIGNMENT

DIFFERENCES BETWEEN FEED FORWARD AND FEEDBACK CONTROL SYSTEM

|  |  |  |
| --- | --- | --- |
| S/N | Feed Forward Control System | Feedback Control System |
| 1. | Requires measurable disturbance or noise. | Requires nothing |
| 2. | It is a system in which the corrective action is taken before disturbances affect the output. | It is a system in which corrective action is taken after disturbances affect the output. |
| 3. | Variables are adjusted based on prior knowledge and predictions. | Variables are adjusted depending on errors. |
| 4. | Example is a video card that increases fan speed in response to intense graphics activity in an attempt to dissipate heat before the temperature actually begins to climb. | Example is the use of roll sensor as feedback element in ship stabilization system. |
| 5. | The block diagram is as follows:  enter image description here | The block diagram is as follows:  enter image description here |

SIMILARITIES

1. They both utilize sensors to measure important factors and a set of rules to react to changes in those factors.

2. They are systems that react automatically to changing environmental dynamics.