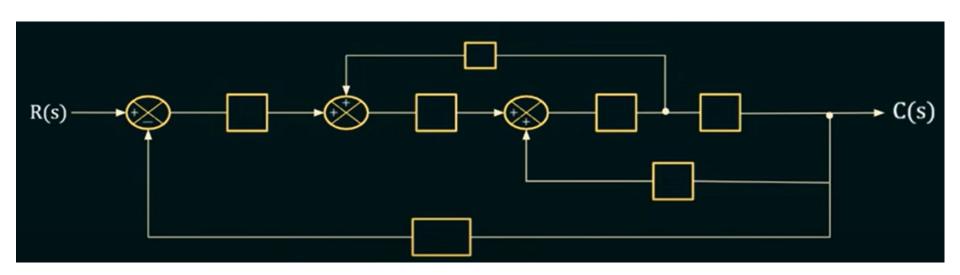
Introduction to Robotics CSE 461

Class 11: Introduction to Control System Theory

Riad Ahmed Lecturer Brac University

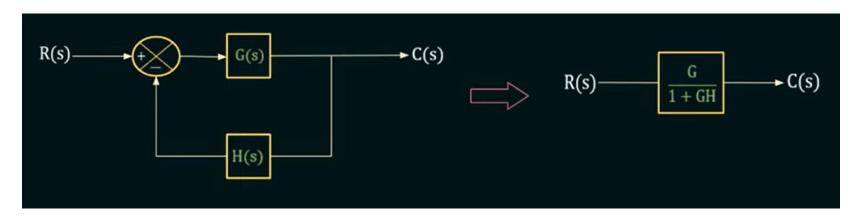


Block Diagram Solving

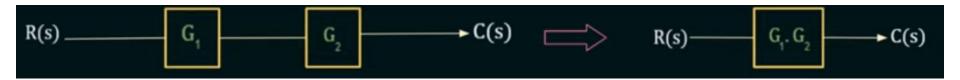
Summing Point



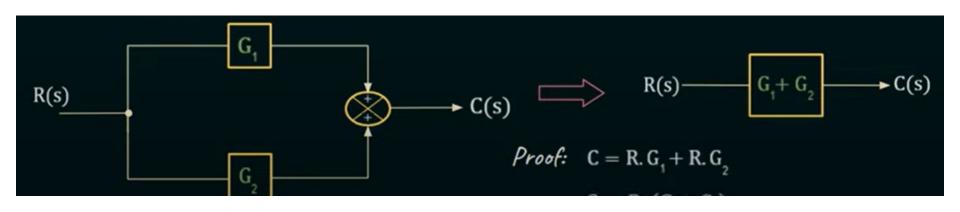
Rule: 1



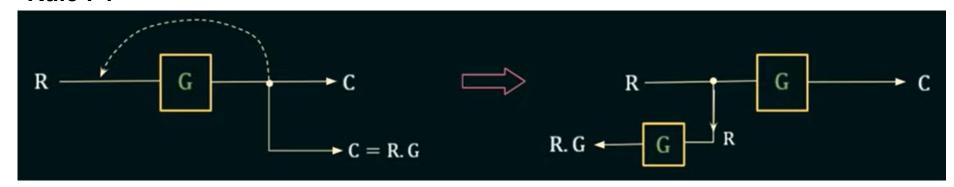
Rule: 2



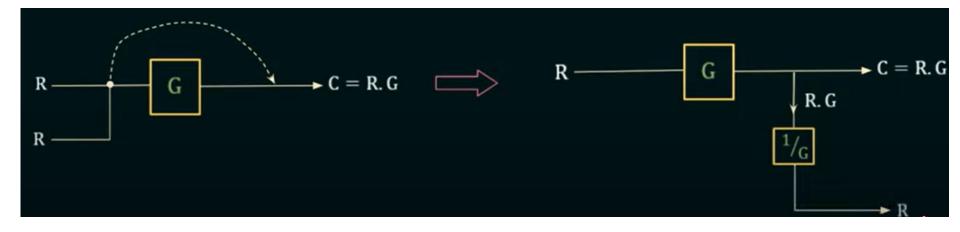
Rule: 3



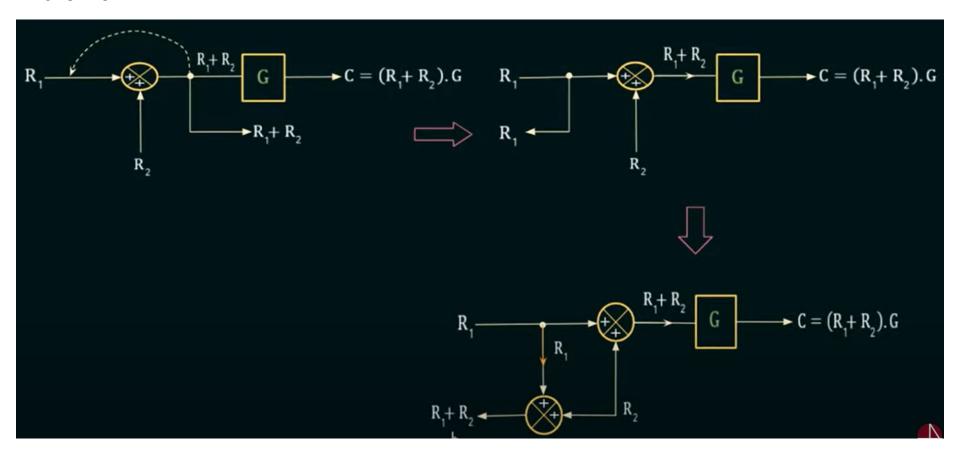
Rule: 4



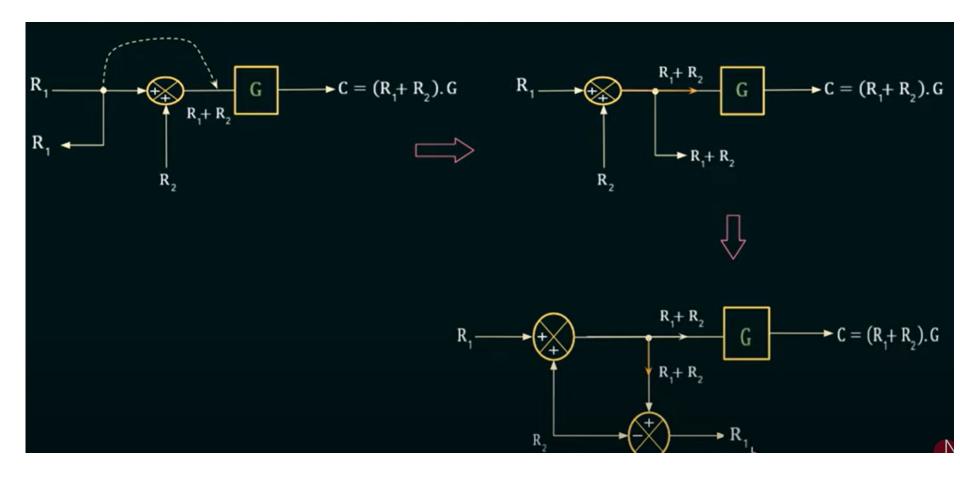
Rule: 5



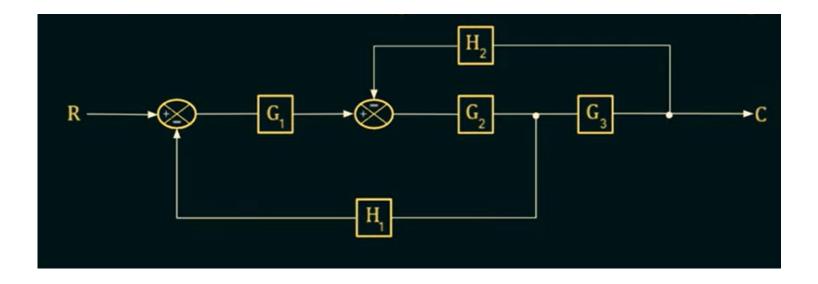
Rule: 6

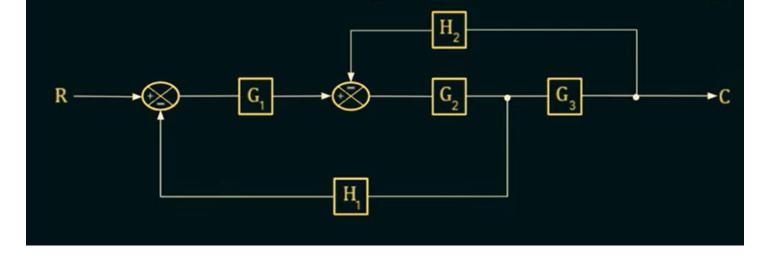


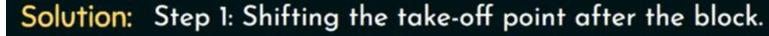
Rule: 7

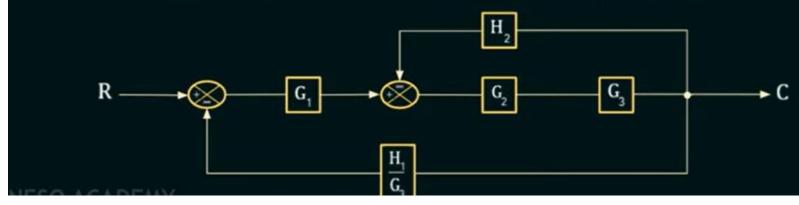


Problem 1:

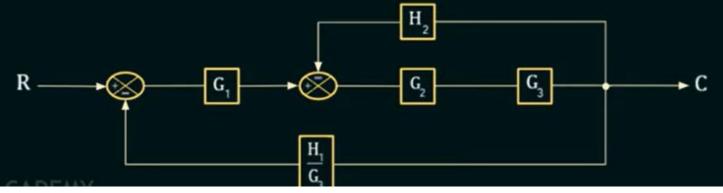


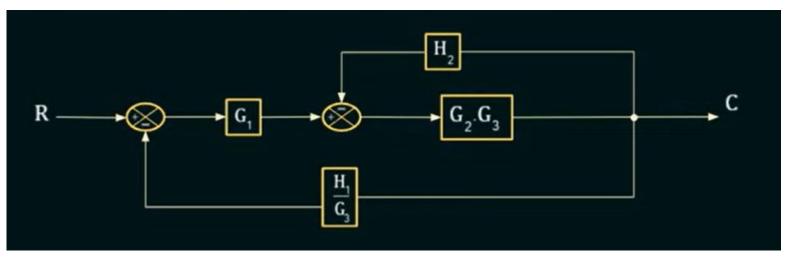


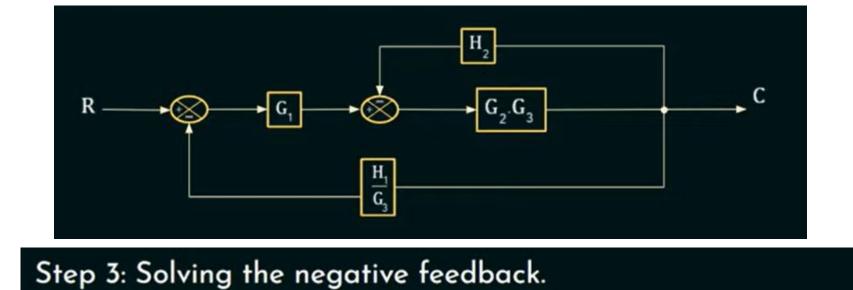


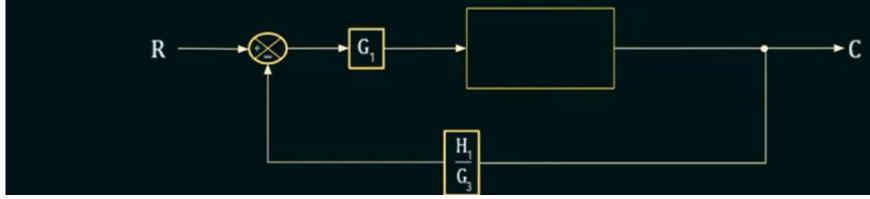


Solution: Step 1: Shifting the take-off point after the block.

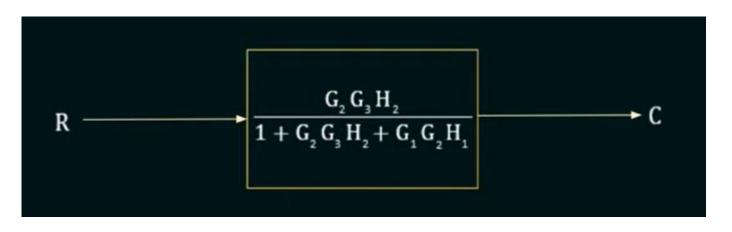








Result



Next Class

PID Control

Thank You