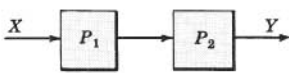
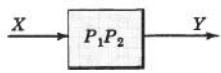
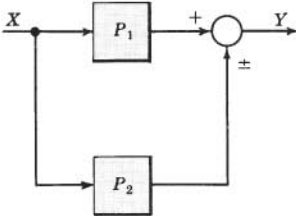
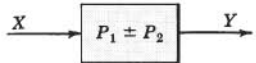
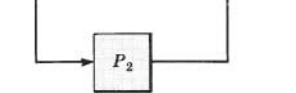
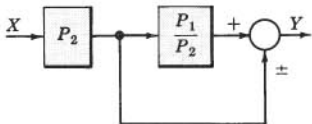
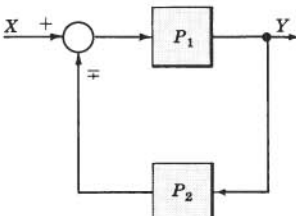
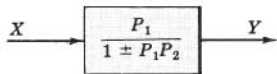
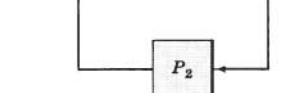
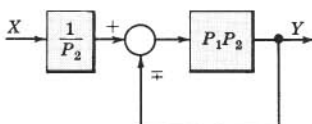
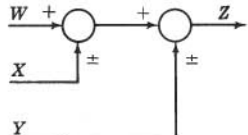
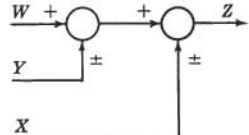
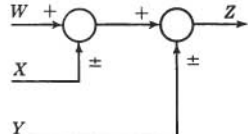
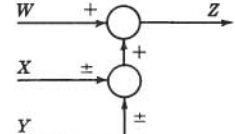
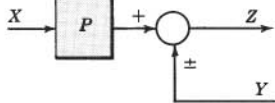
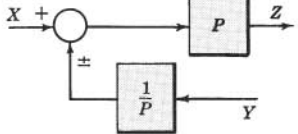
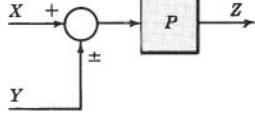
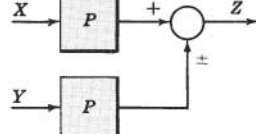
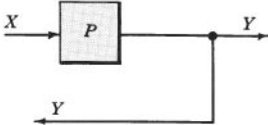
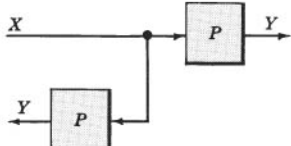
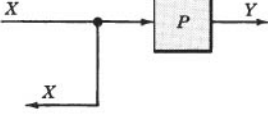
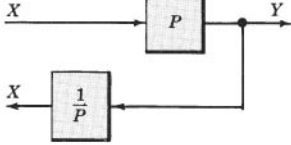
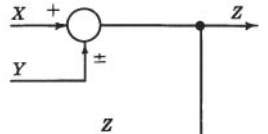
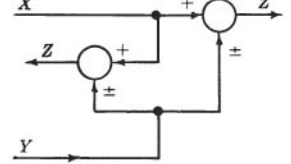
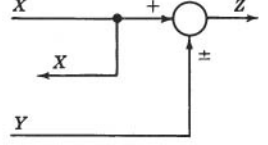
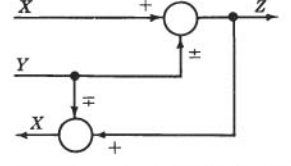


| Transformation |   | Equation                | Block Diagram   | Equivalent Block Diagram   |
|----------------|---|-------------------------|---|--|
| 1              | Combining Blocks in Cascade                                 | $Y = (P_1 P_2)X$        |    |   |
| 2              | Combining Blocks in Parallel; or Eliminating a Forward Loop | $Y = P_1 X \pm P_2 X$   |    |    |
| 3              | Removing a Block from a Forward Path                        | $Y = P_1 X \pm P_2 X$   |    |    |
| 4              | Eliminating a Feedback Loop                                 | $Y = P_1 (X \mp P_2 Y)$ |   |    |
| 5              | Removing a Block from a Feedback Loop                       | $Y = P_1 (X \mp P_2 Y)$ |   |   |
| 6a             | Rearranging Summing Points                                  | $Z = W \pm X \pm Y$     |  |  |
| 6b             | Rearranging Summing Points                                  | $Z = W \pm X \pm Y$     |  |  |
| 7              | Moving a Summing Point Ahead of a Block                     | $Z = PX \pm Y$          |  |  |
| 8              | Moving a Summing Point Beyond a Block                       | $Z = P[X \pm Y]$        |  |  |

| Transformation |   | Equation      | Block Diagram  | Equivalent Block Diagram  |
|----------------|---|---------------|--|---|
| 9              | Moving a Takeoff Point Ahead of a Block         | $Y = PX$      |   |   |
| 10             | Moving a Takeoff Point Beyond a Block           | $Y = PX$      |   |   |
| 11             | Moving a Takeoff Point Ahead of a Summing Point | $Z = X \pm Y$ |   |   |
| 12             | Moving a Takeoff Point Beyond a Summing Point   | $Z = X \pm Y$ |  |  |