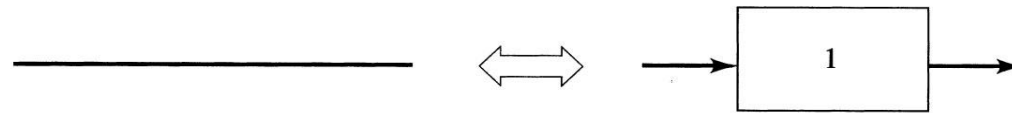


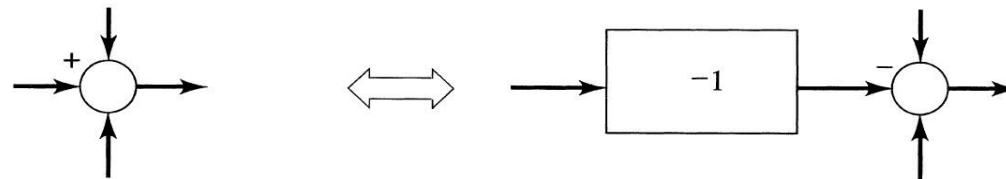
UNIT-1

(Lecture-5)

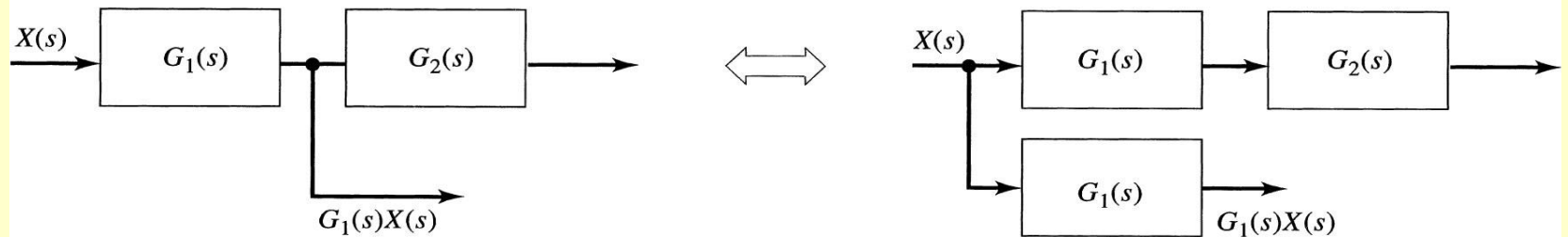
Block Diagrams Reduction Rules



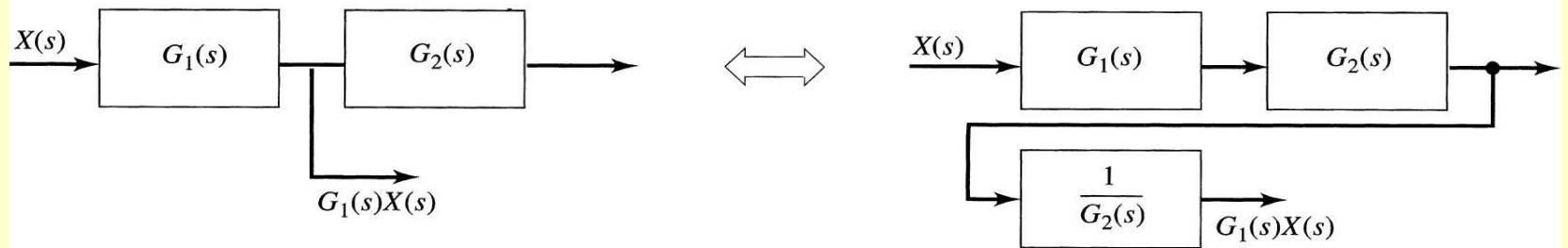
(a) Insertion or removal of unity gain



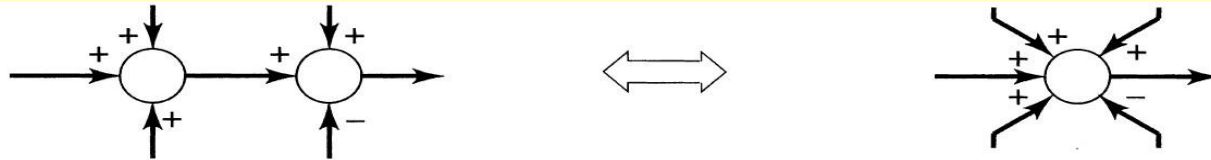
(b) Changing a summer sign



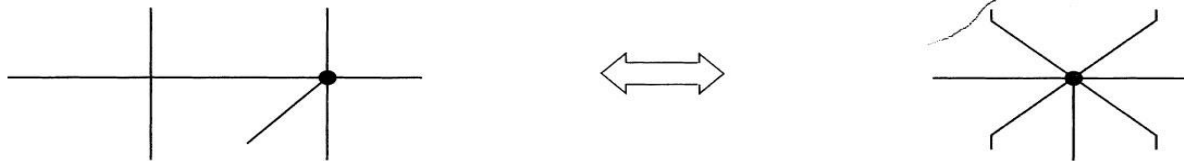
(c) Moving a pickoff point back



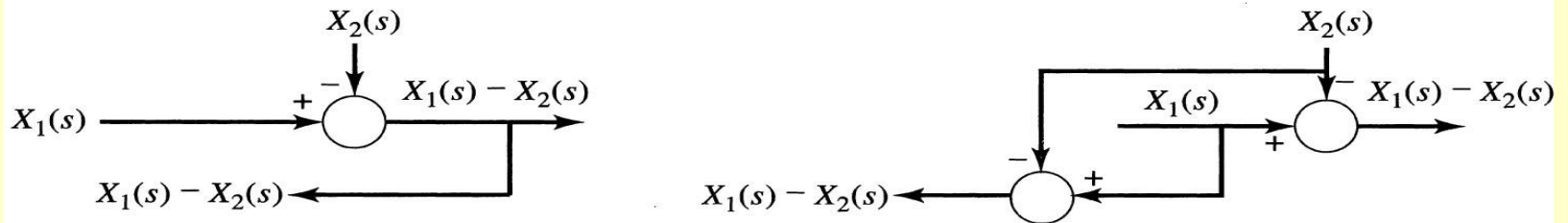
(d) Moving a pickoff point forward



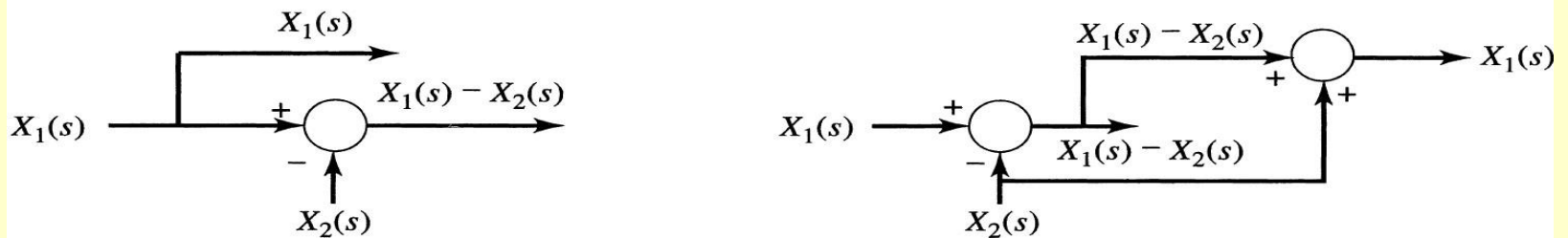
(e) Combining or expanding summations



(f) Combining or expanding junctions

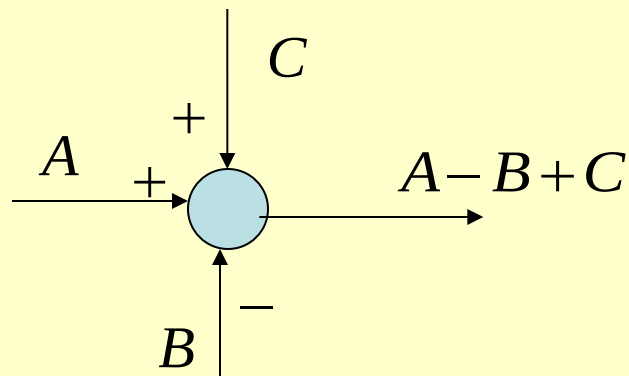
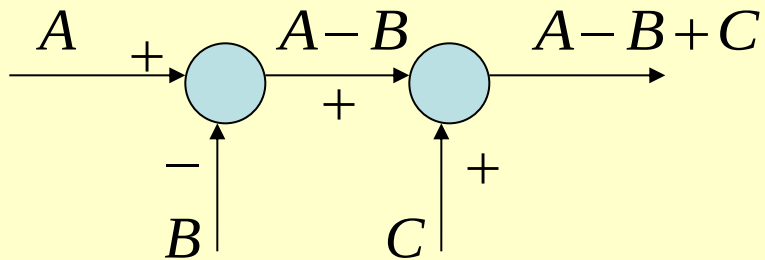


(g) Moving a pickoff point behind a summation

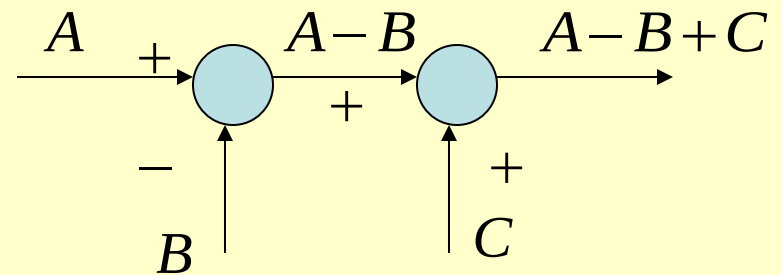
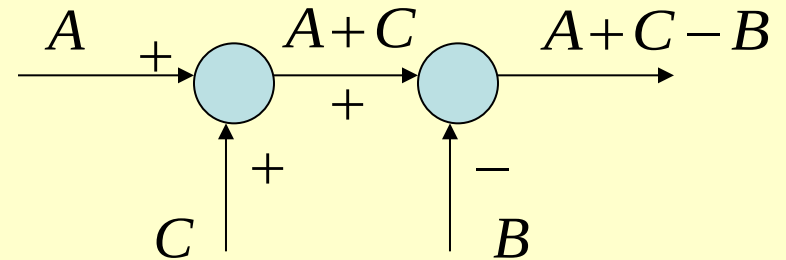


(h) Moving a pickoff point forward of a summation

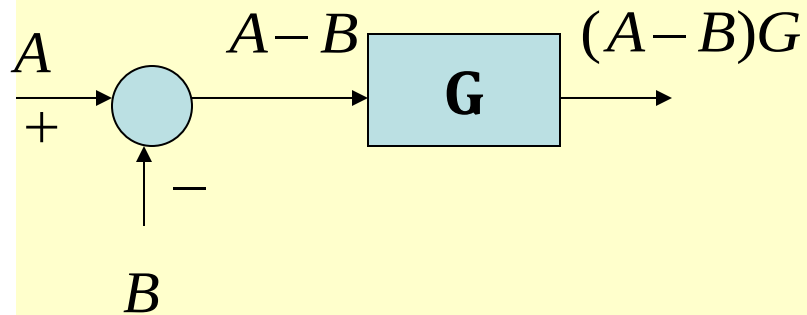
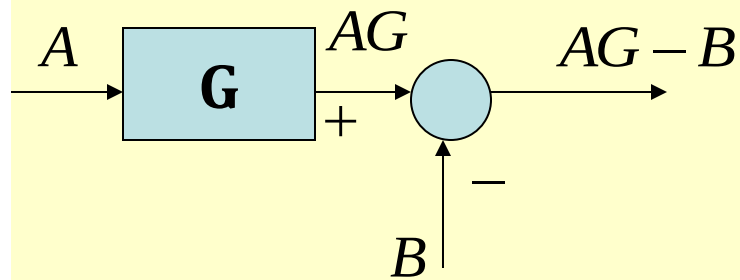
original



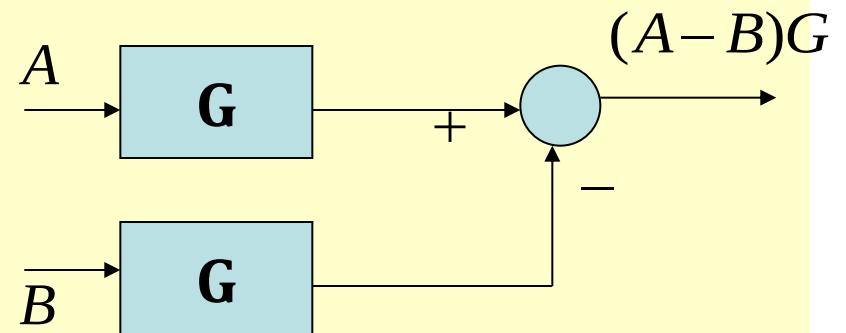
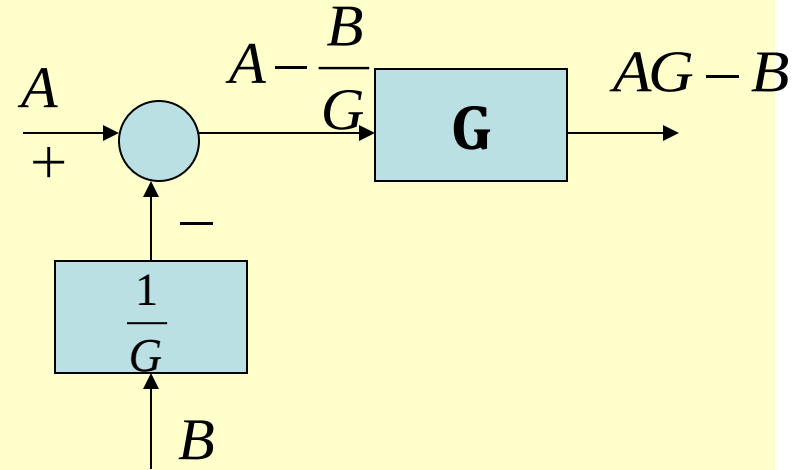
equivalent



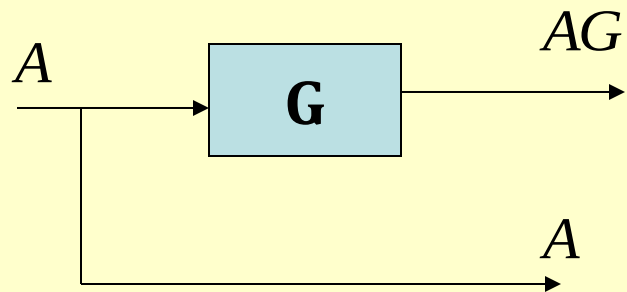
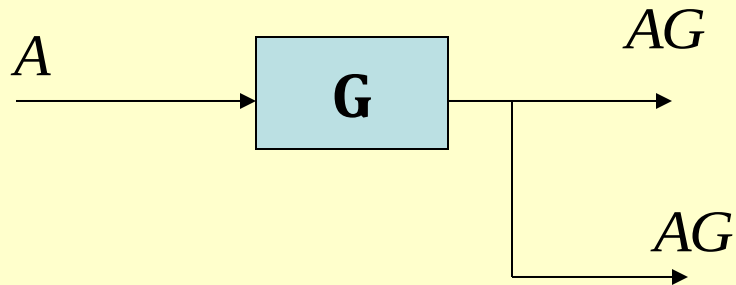
original



equivalent



original



equivalent

