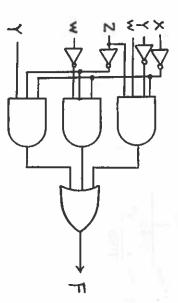
- (c) AB'C'(D+BC')+C'D+A'B' P4b =AB'C'D+AB'BC'+C'D+A'B' =AB'C'D+C'D+A'B' =3a =C'D+A'B'
- (d) F=((X'Y)'+XY'+Z(X+YZ)'+X'Z')' F'=(X'Y)'+XY'+Z(X+YZ)'+X'Z')'T5b =X+Y'+XY'+Z(X(Y'+Z'))+X'Z' =X+Y'+XY'+Z(X(Y'+Z'))+X'Z'
- =X+Y'+XY'Z+XZZ'+X'Z' =X+Y'+XY'Z+X'Z' T3a =X+Y'+X'Z' =Y'+X+X'Z' T4a =Y'+X+Z'=X+Y'+Z' =Y'+X+Z'=X+Y'+Z'
- (a) XY'Z+XY'Z'+XZ'Y+YZ'X+XZ'Y' = XY'Z+XY'Z'+XYZ'+XYZ'-XY'Z' = XY'(Z+Z')+XZ'+XY'Z' = XY'(Z+Z')+XZ'(Y+Y')= XY'+XZ'
- 2.18 (a) F=P'+Q

 P

 Q

 F=P'+Q
- (b) F=X'YZ'+W'X'Z'+WX'Y'Z



(c) F=C'D+A'B'

- (e) F=xy'+xz'

 X

 Y

 F=xy'+xz'
- 2.19 (a) P(A,B,C)=A'B'C'+A'B'C+A'BC+AB'C
 (b) P(A,B,C)=A'B'C'+A'B'C+A'BC+AB'C

 =A'B'C'+A'B'C+A'B'C+A'BC+AB'C

 =A'B'C'+A'B'C+A'B'C+A'BC+AB'C

 =(A'B'C'+A'B'C+A'B'C+A'B'C+A'BC+AB'C

 =A'B'C'+A'B'C'+A'B'C'+A'BC'+A'BC'+A'BC'+AB'C

 =A'B'(C'+C)+A'C(B'+B)+B'C(A'+A)

 P5a

 =A'B'+A'C+B'C

 =A'B'+A'C+B'C

