## **Boolean Laws and Theorems**

 $F_{(a,b,c)} = (A + C)(AB + AB') + AC + C$ 

= (AAB + AAB') + (CAB + CAB') + AC + C Distributive Law

= (AB + AB') + (CAB + CAB') + AC + C Idempotent Law

= (CAB + CAB') + AC + C Absorption Law

= (CAB + CAB') + C Associative Law

= AC + C Domination Law

= A + C Domination Law