

6.18 Reduce the number of states for the FSM in Figure 6.92 by using an implication table.

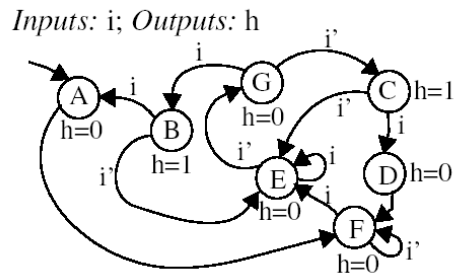


Figure 6.92: FSM example.

B						
C			D,A			
D	F,F			F,D		
E	E,F			E,D	E,F	
F	E,F			E,D	E,F	E,E
G	B,F			B,D	B,F	B,E
	C,F			C,E	C,F	C,G
A	B	C	D	E	F	

First Pass

B						
C			D,A			
D	F,F			F,D		
E	E,F			E,D	E,F	
F	E,F			E,D	E,F	E,E
G	B,F			B,D	B,F	B,E
	C,F			C,E	C,F	C,G
A	B	C	D	E	F	

Second Pass

B						
C			D,A			
D	F,F			F,D		
E	E,F			E,D	E,F	
F	E,F			E,D	E,F	E,E
G	B,F			B,D	B,F	B,E
	C,F			C,E	C,F	C,G
A	B	C	D	E	F	

Third Pass

B						
C			D,A			
D	F,F			F,D		
E	E,F			E,D	E,F	
F	E,F			E,D	E,F	E,E
G	B,F			B,D	B,F	B,E
	C,F			C,E	C,F	C,G
A	B	C	D	E	F	

Fourth and Final Pass

