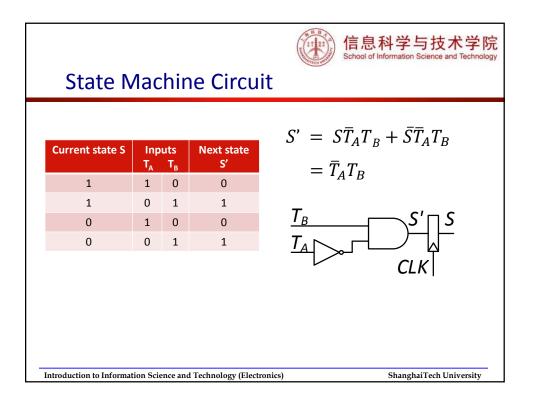
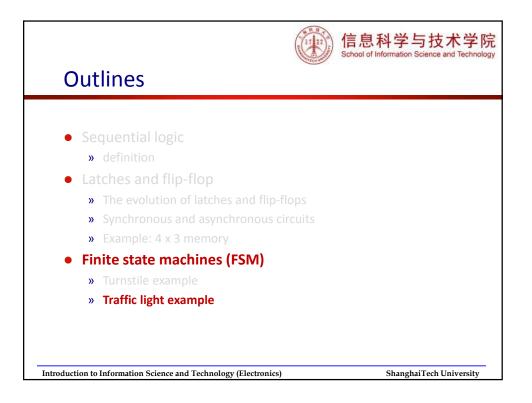
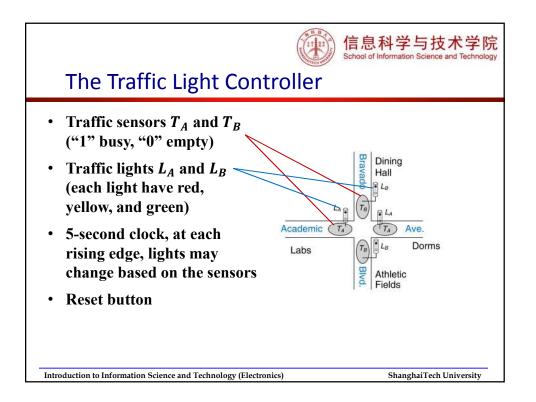
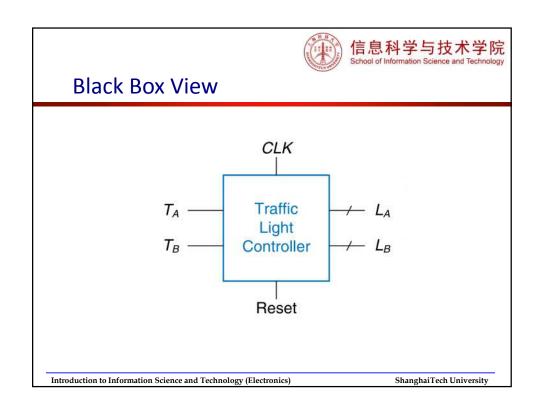


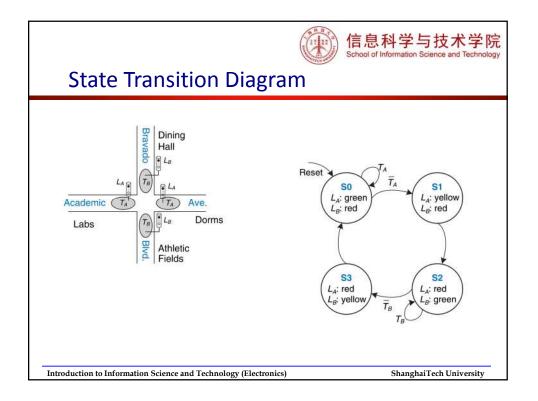
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State E	nco	aing	8				
Current state S Inputs T _A T _B		Next state S'		State encoding • Locked = 1			
Locked	Coin		Unlocked		 Unlocked = 0 Input encoding Coin = 10 Push = 01 		
Locked		Push	Locked	·			
Unlocked	Coin		Unlocked	l i i i i i i i i i i i i i i i i i i i		• Pu	$\sin = 01$
Unlocked		Push	Locked				
				Current state S		uts	Next state S'
				1	Т _А 1	T _B	0
				1	0	1	1
				0	1	0	0
				0	0	1	1
Introduction to Informa	tion Scier	nce and Tec	hnology (Electr	onics)		Shai	nghaiTech University

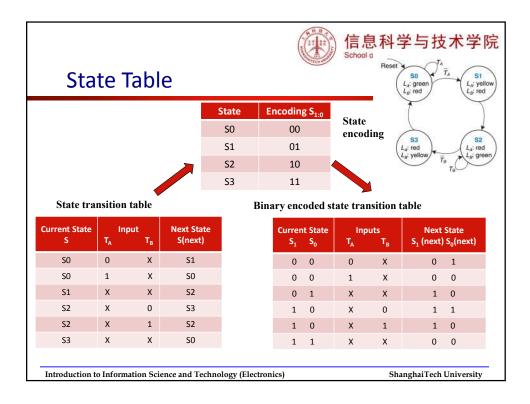


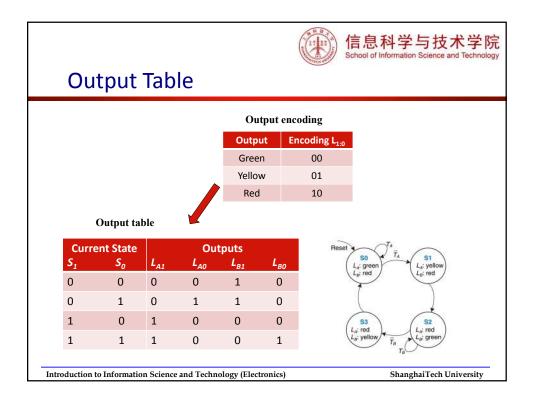












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Current	State table Current State Inputs S1 S0 Ta T8 S1		Next S ₁ (next)		$S_{1,next} = \overline{S}_1 S_0 + S_1 \overline{S}_0 \overline{T}_B + S_1 \overline{S}_0 T_B$	
-	, in the second	T _A	Τ _Β	-	, in the second	$=\overline{S}_{1}S_{0}+S_{1}\overline{S}_{0}$
0	0	0	X X	Ũ	1	$= S_1 \oplus S_0$
Ū	1	1 X	x	Ŭ	0	-1 0
1	1	x	x 0		1	$S_{0,next} = \overline{S}_1 \overline{S}_0 \overline{T}_A + S_1 \overline{S}_0 \overline{T}_B$
1	0	x	1	1	-	- 0,next - 1-0-A + - 1-0-B
-	1	x	-	-	0	
Outp	ut tabl	e			U	$L_{A1} = S_1$
				Outputs		$I = \overline{C} C$
<i>S</i> ₁	S ₀			, L _{B1}	L _{BO}	$L_{A0}=\overline{S}_{1}S_{0}$
0	0	0	0	1	0	$L_{B1} = \overline{S}_1$
0	1	0	1	1	0	
1	0	1	0	0	0	$L_{B0} = S_1 S_0$
1	1	1	0	0	1	
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