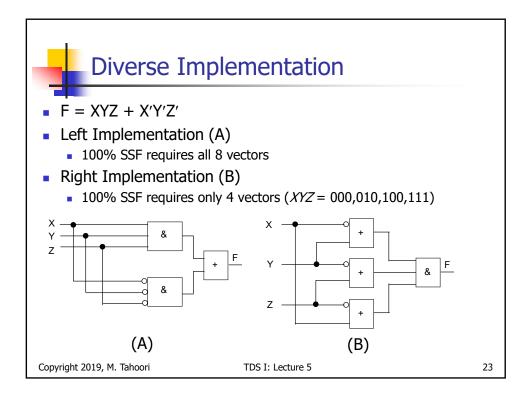
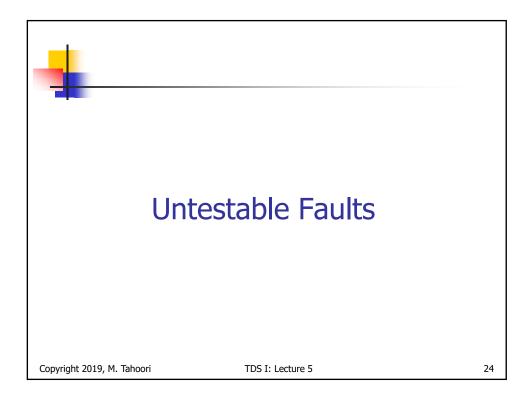
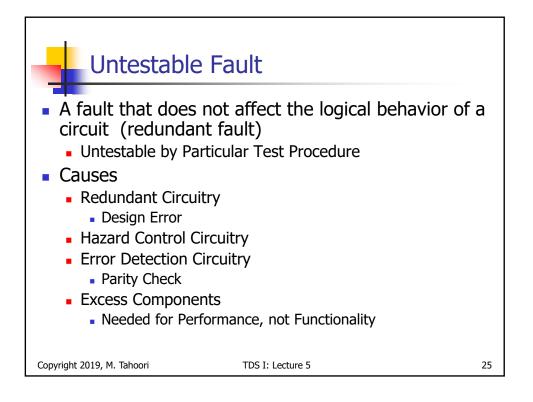


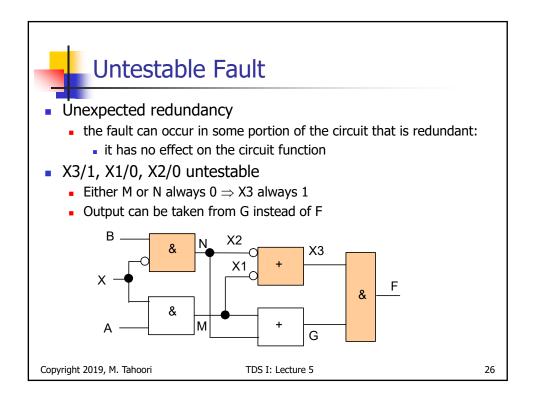
-	P	in Fa ^_ в	ults x1	_	1 2 <sup>.</sup>	-bit	: M +	UX f					
	Input X A B	X Fault-free Output	x2	<u>-</u> d	S Output A/0	Value	with S B/0	Stuck-a B/1	it Faul <i>f</i> /0	t <i>f</i> /1	<i>X1</i> /1	<i>X2</i> /1	
	000	0	0	0	0	1	0	0	0	1	0	0	İ
	001	0	0	1	0	1	0	0	0	1	0	1	
	010	1	1	0	0	1	1	1	0	1	1	1	
	011	1	1	1	0	1	1	1	0	1	1	1	
	100	0	0	0	0	0	0	1	0	1	0	0	
	101	1	0	1	1	1	0	1	0	1	1	1	
	110	0	1	0	0	0	0	1	0	1	1	0	
	111	1	1	1	1	1	0	1	0	1	1	1	
Соруг	right 2019,	, M. Tahoori			Т	DS I: Le	ecture 5	5					21

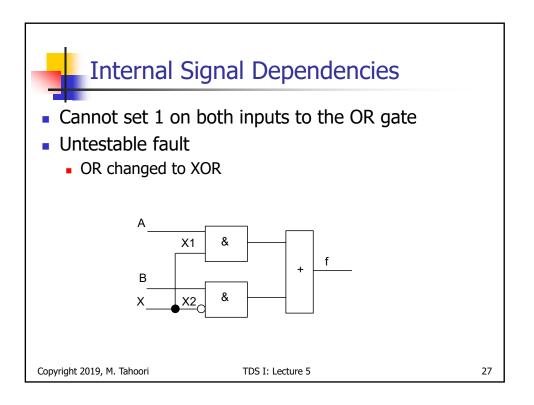
-	Pin Faults				
• 1	<ul> <li>Fault coverage for 2-to</li> <li>Different implementati</li> </ul>				
	Test	AND-OR		OR-AN	D
	Set	Single Stuck	Pin faults	Single Stuck	Pin faults
	<i>S</i> 1 = { <i>XAB</i> = 001, 011, 110, 111}	100%	100%	80%	100%
	<i>S</i> 2 = { <i>XAB</i> = 000, 010, 100, 101}	80%	100%	100%	100%
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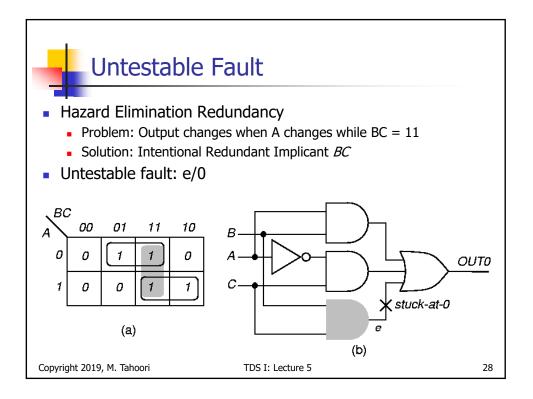


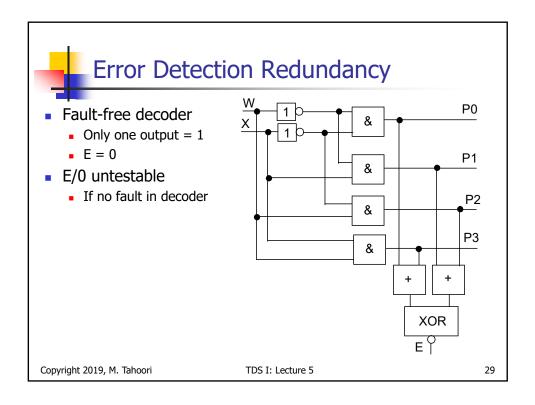


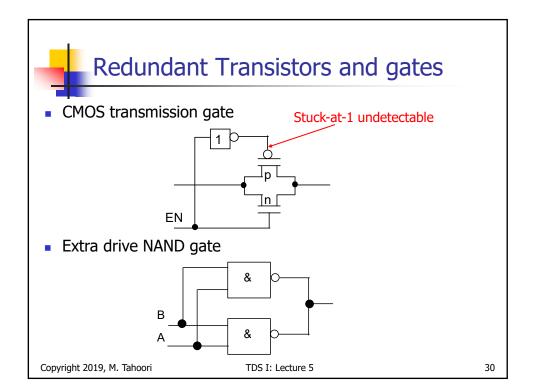


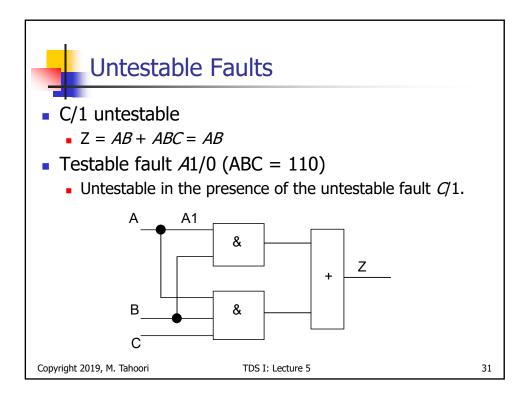


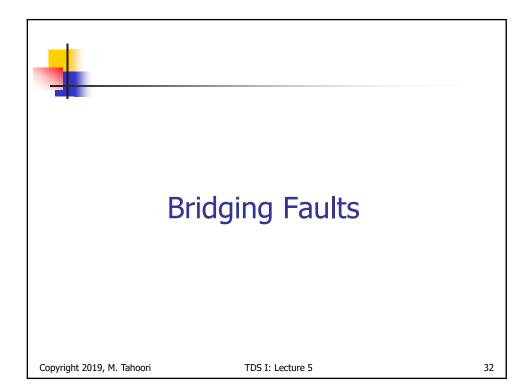


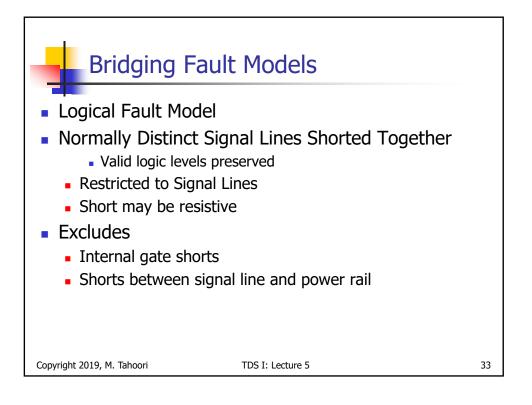


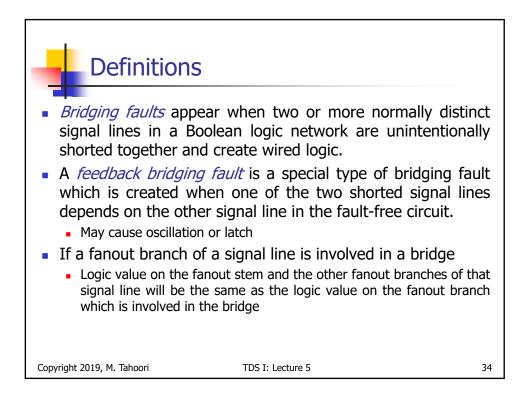


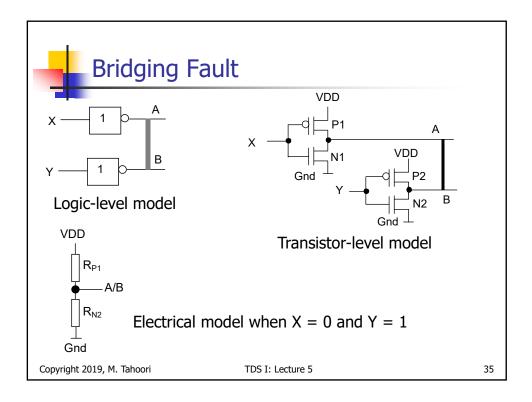


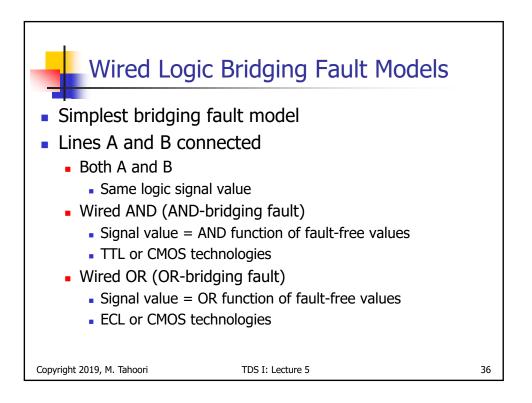


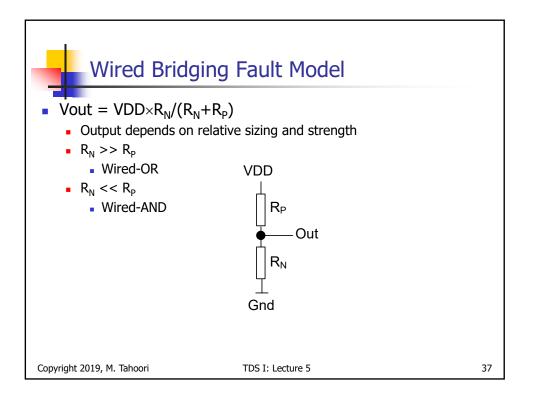


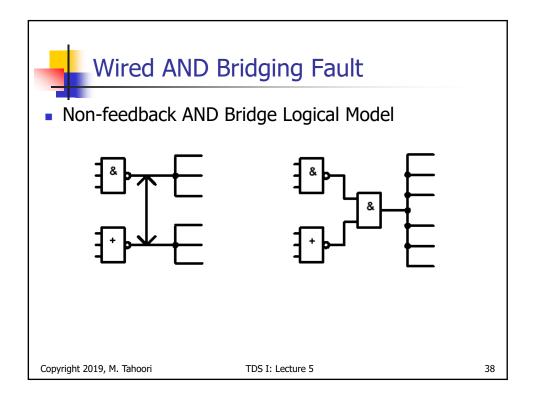


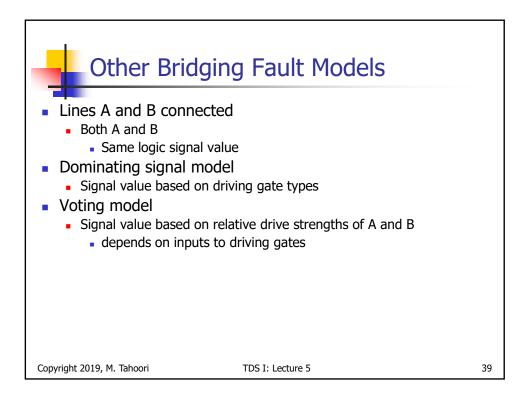




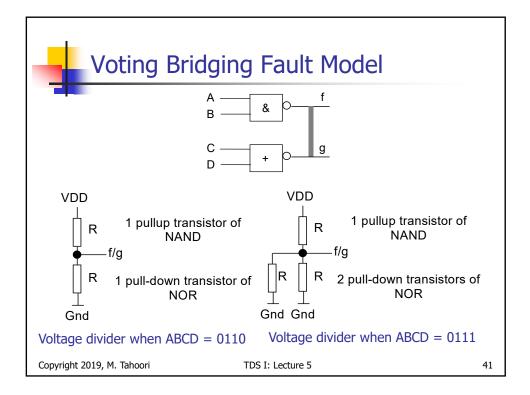


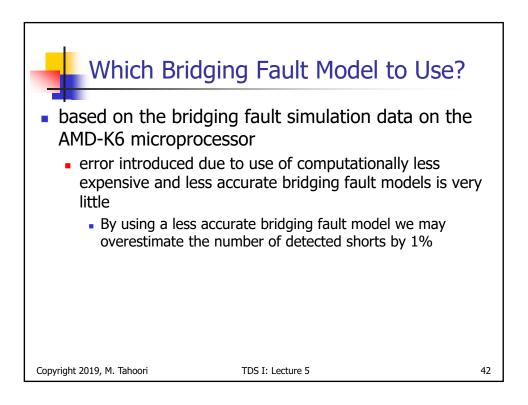


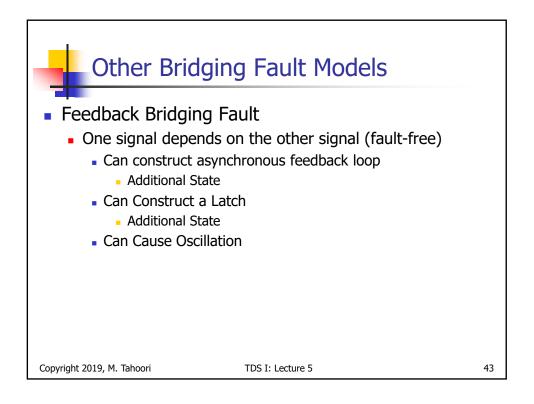


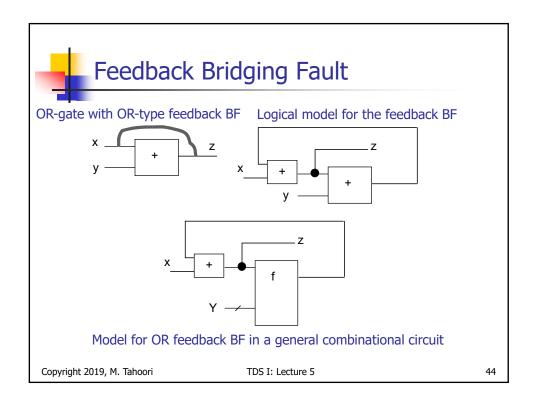


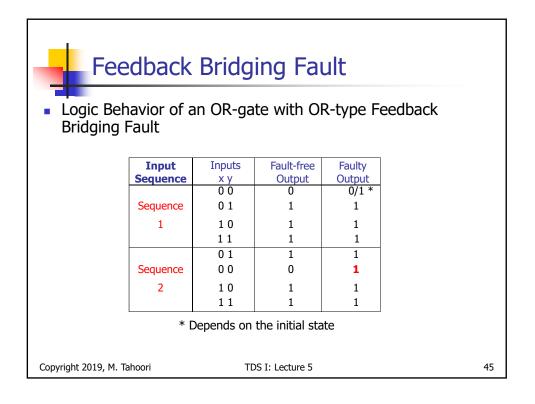
	Othe	er Bridg	ing Fau	ult Mod	els			
	various B	naviors of ridging Fa	ault Mode	els	and <i>B</i> unde	r		
	Fault-free	Faulty Behaviors						
	Behavior	Wired-AND	Wired-OR	A-Dominant	B-Dominant			
	A B	A B	A B	A B	A B			
	0 0	0 0	0 0	0 0	0 0			
	01	0 0	11	0 0	11			
	10	0 0	11	11	0 0			
	11	11	11	11	11			
Copyr	ight 2019, M. Tah	oori	TDS I: Lee	cture 5		40		

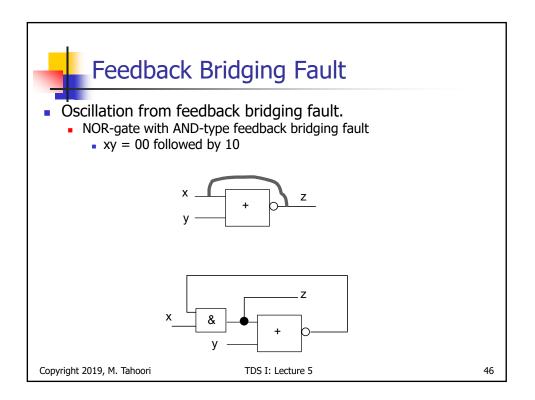


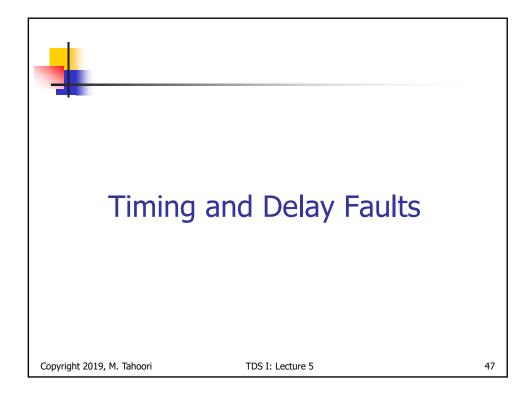


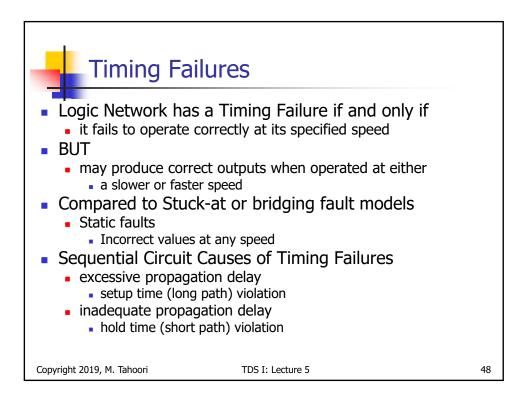


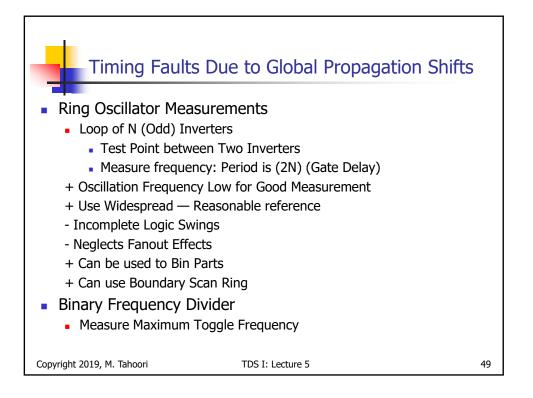


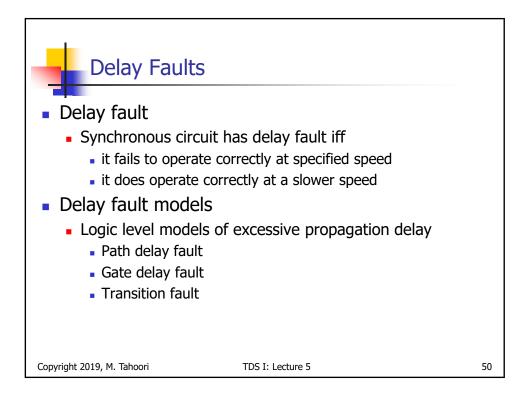


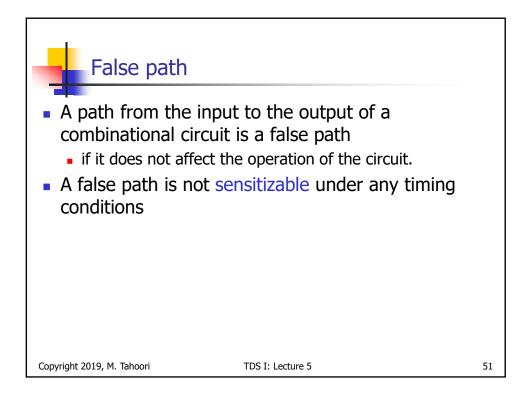


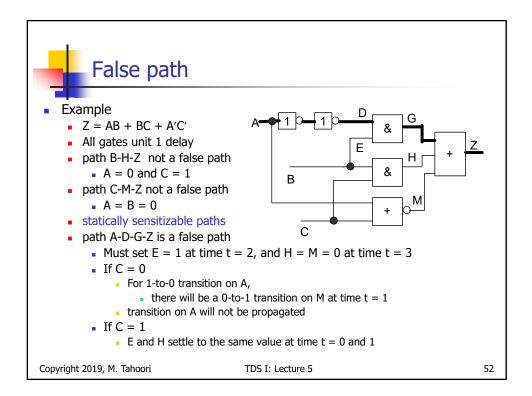


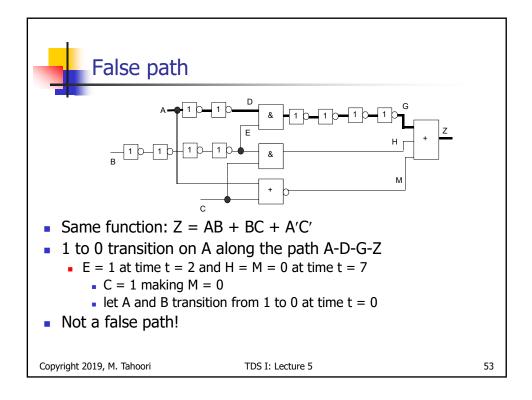


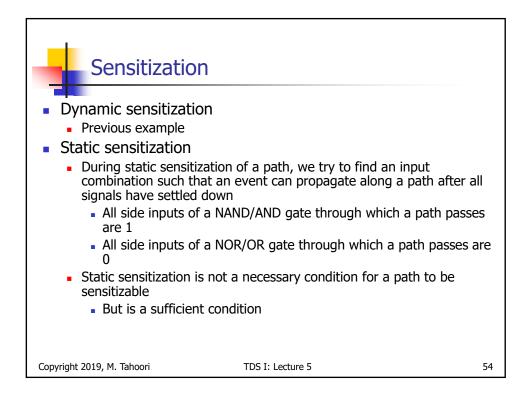


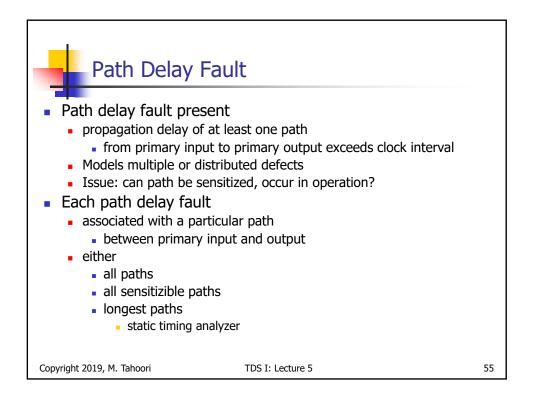


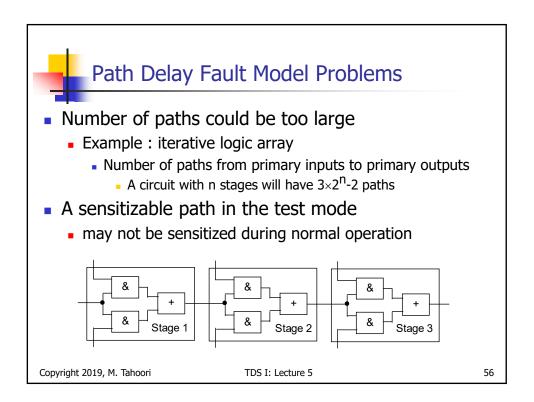


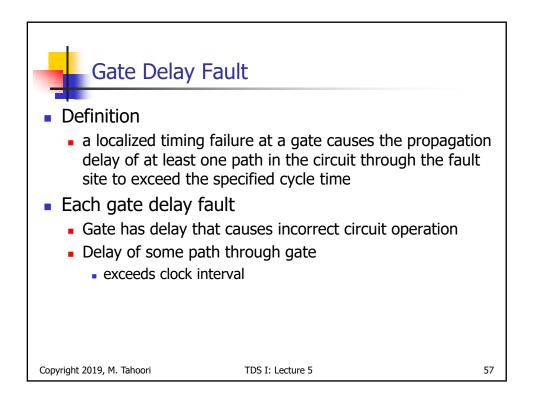


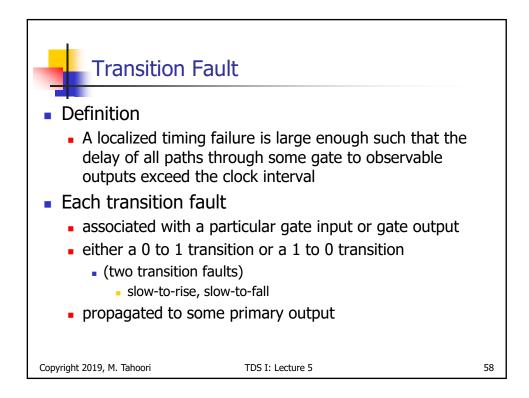


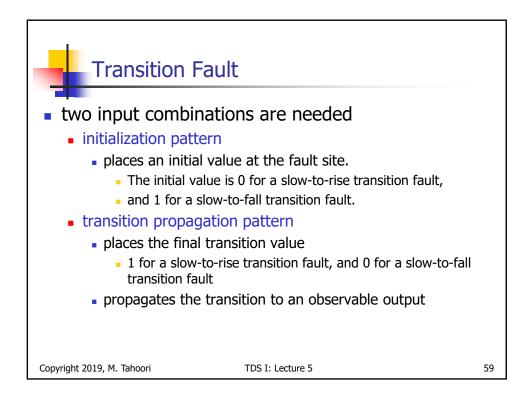












	Pattern Sequence 1 2	Inputs A B 0 0 0 1	Fault-free Output Z 1	Α	rise Transitio	Faulty C on Faults		fall Transitio	n Faults	
	Sequence 1	A B 0 0 0 1	Output Z 1	Α		on Faults	Slow-to-	fall Transitio		
-	1	00	1				Slow-to-fall Transition Faults			
-		01			В	Z	A	В	Z	
-	2	- ·		1	1	1	1	1	1	
-	2		1	1	1	1	1	1	1	
		00	1	1	1	1	1	1	1	
-	0	10	1	1	1	1	1	1	1	
-	3	00	1	1	1	1	1	1	1	
-		11	0	1	1	0	1	1	1	
	4	01	1	1	1	1	1	1	1	
L	_	00	1	1	1	1	1	1	1	
L	5	01	1	1	1	1	1	1	1	
L	-	10	1	1	1	1	1	0	1	
L	6	01	1	1	1	1	1	1	1	
L		11	0	1	0	0	1	0	1	
L	7	10	1	1	1	1	1	1	1	
L		00	1	1	1	1	1	1	1	
L	8	10	1	1	1	1	1	1	1	
		01	1	1	1	1	0	1	1	
	9	10	1	1	1	1	1	1	1	
E		11	0	0	1	0	0	0	1	
E	10	11	0	0	0	0	0	0	0	
		00	1	1	1	0	1	1	1	
	11	11	0	0	0	0	0	0	0	
		01	1	1	1	0	0	1	1	
	12	11	0	0	0	0	0	0	0	
		10	1	1	1	0	1	0	1	

