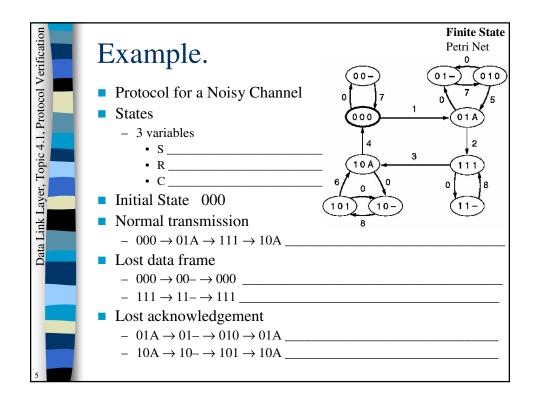


Data Link Layer, Topic 4.1, Protocol Verification	Finite State Machines (1)	Finite State Petri Net
tocol	Protocol Machines:	
1, Pro	■ State Eating	Sleeping
pic 4.	– Includes all	
r, To	− 2 ⁿ possible states Playing ←	Crying
Laye	This is very large so states are	
ata Link	Generally chosen from as all other states can be regarded as	
De	■ Transitions: From each state there are	
	These are caused by	
	One state must be designated as	
3		

erification	Finite State Machines (2)	Finite State Petri Net
Data Link Layer, Topic 4.1, Protocol Verification	 Given a full description of a FSM it she be possible to draw a graph Nodes Directed arcs Reachability Analysis allows to such a such a reachability such a reachability such a reachability reachability such a reachability reachability	



rification	Checking for problems				Finite State Petri Net	
Data Link Layer, Topic 4.1, Protocol Verification	Alternating framesNever 11Or 33Check FSM	-		(frame	A 1 A 0 A A	To network layer Yes Yes No No -
Data Li	DeadlockNo way outNo forward progressCheck FSM					

