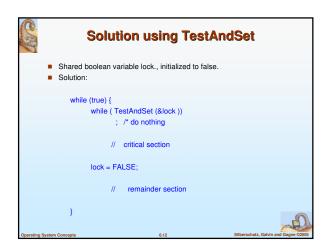
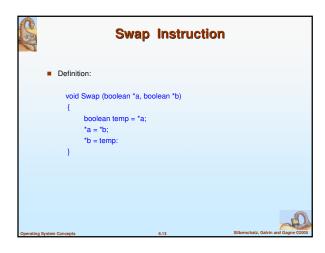
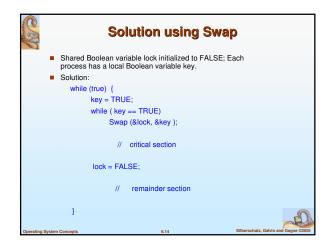
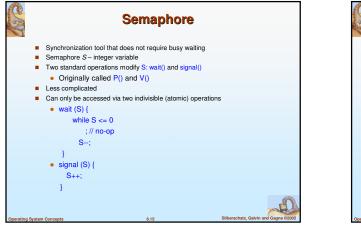


CN	TestAndndSet Instruction				
	Definition:				
	boolean TestA	AndSet (boolean *target)			
	1	, °,			
	boolean rv	r = *target:			
	*target = T				
	return rv:				
	1				
	1				
Operating S	ystem Concepts	6.11	Silberschatz, Galvin and Gagne ©2005		

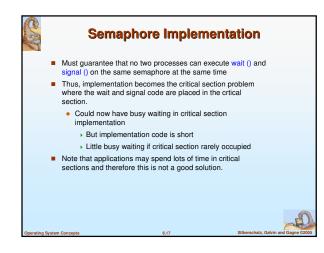


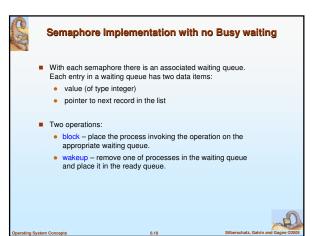


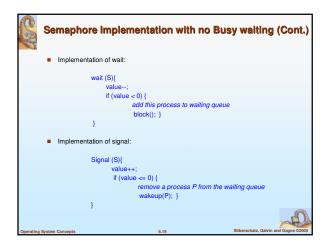


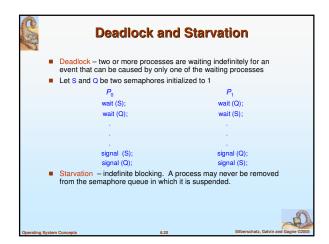


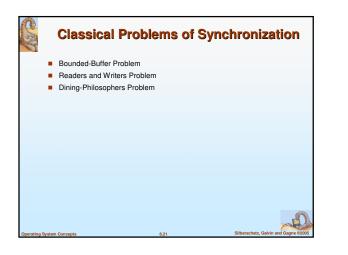


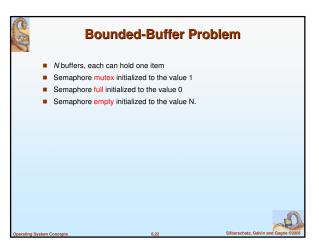




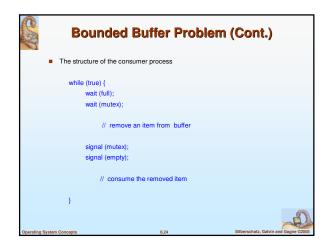


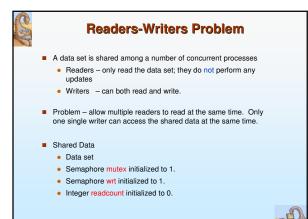


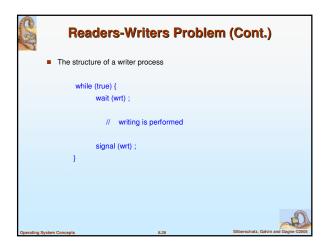


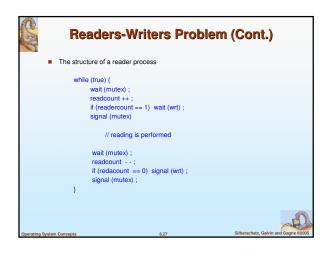


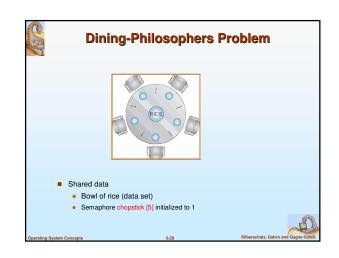
CN	Bounded Buffer Problem (Cont.)				
	The structure of the prod	ucer process			
	while (true) {				
	// produce a	ın item			
	wait (empty);				
	wait (mutex);				
	// add the ite	m to the buffer			
	signal (mutex);				
	signal (full);				
	}				
			-D		
Operating Sys	stem Concepts	6.23	Silberschatz, Galvin and Gagne ©2005		

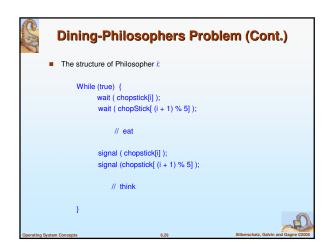


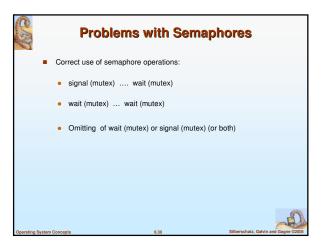


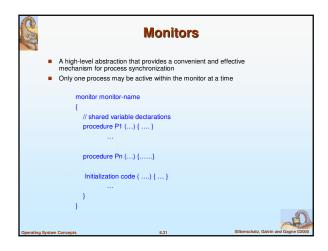


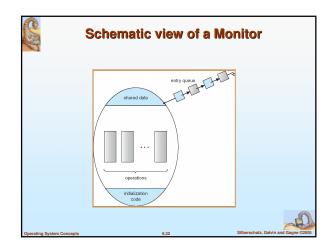


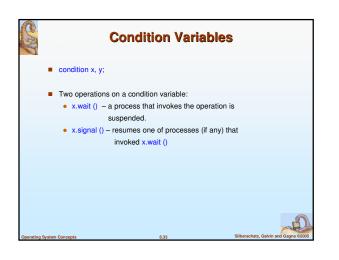


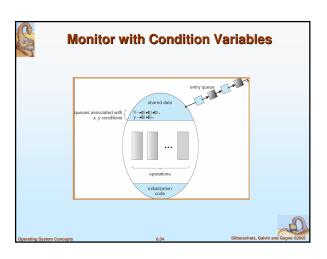


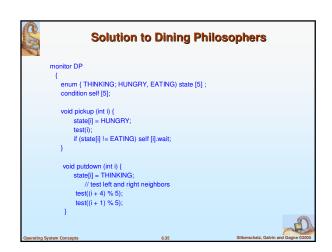


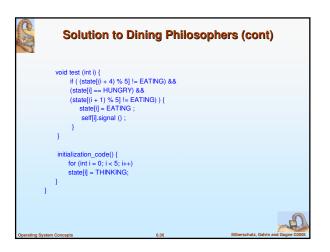




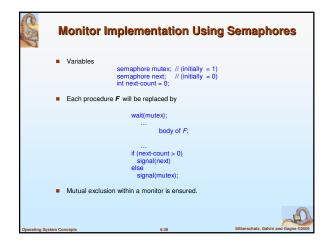


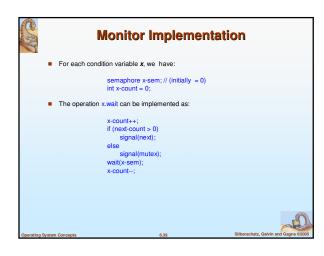


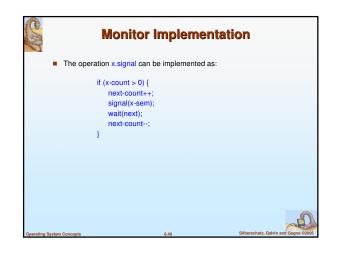


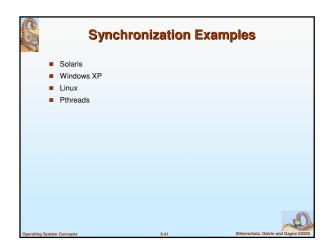


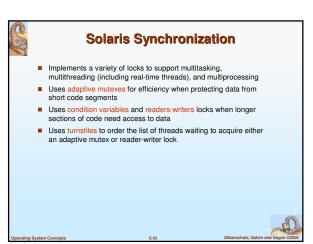
	Solution to Dining Philosophers (cont)			
	Each philosopher <i>I</i> in and putdown() in the	vokes the operations pi following sequence:	ickup()	
	dp.pickup (i)			
	EAT			
	dp.putdown (i)			
Operating System C	oncents	6.37	Silberschatz, Galvin and Gagne ©2005	

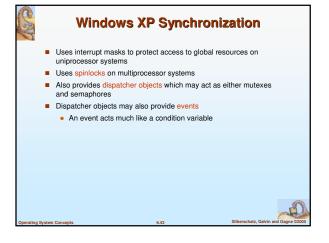


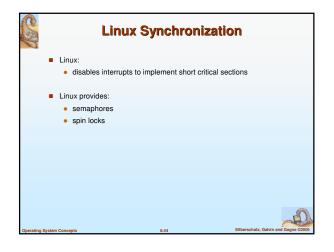


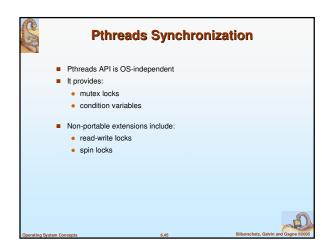


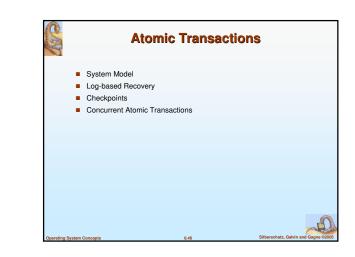


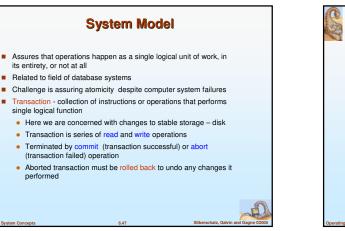


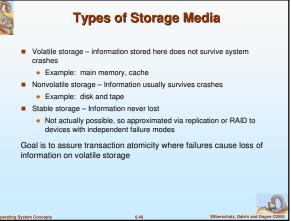


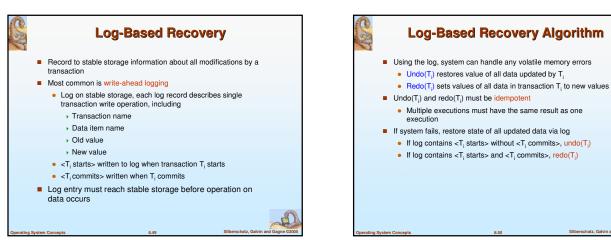


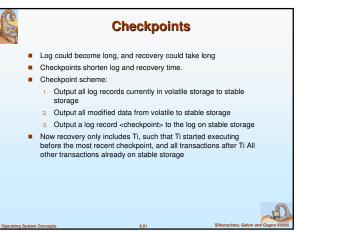


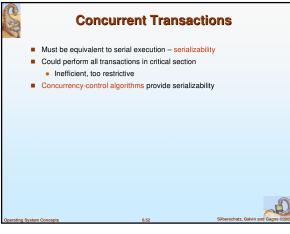


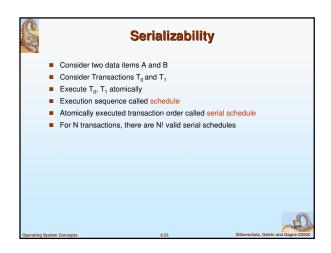


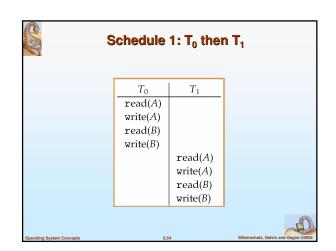


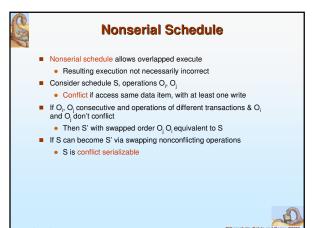


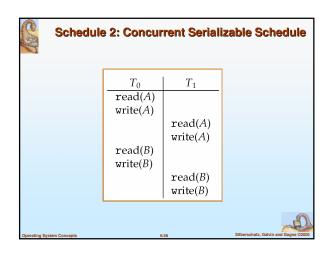


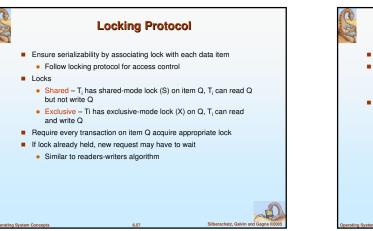


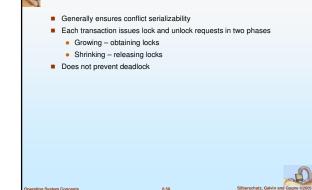












Two-phase Locking Protocol

