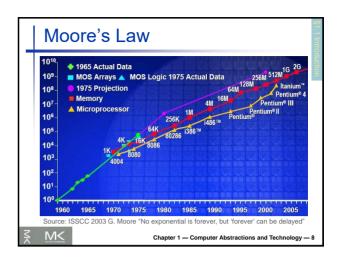
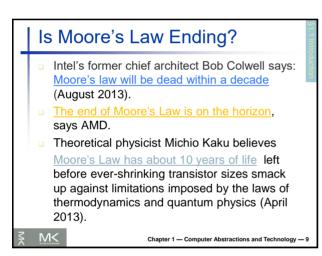
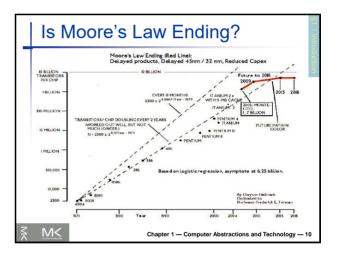
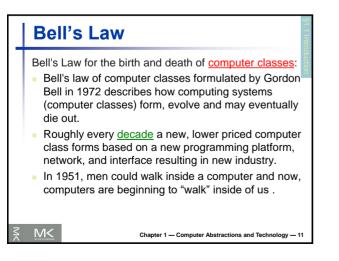


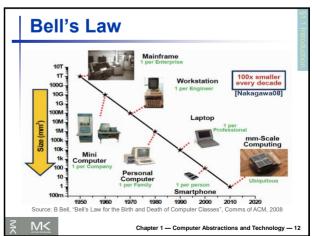
Moore's L	aw		
Yea	r of introduction	Transistors	
4004	1971	2,250	
8008	1972	2,500	
8080	1974	5,000	
8086	1978	29,000	
286	1982	120,000	
386™	1985	275,000	
486™ DX	1989	1,180,000	
Pentium®	1993	3,100,000	
Pentium II	1997	7,500,000	
Pentium III	1999	24,000,000	
Pentium 4	2000	42,000,000	
M<	Chapter 1 — Computer /	Abstractions and Technology —	

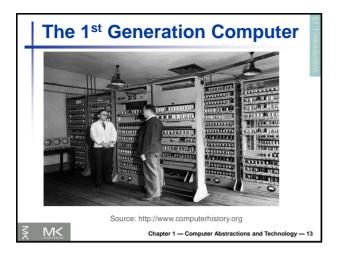




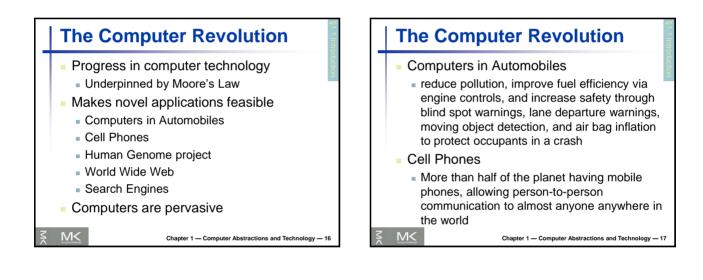


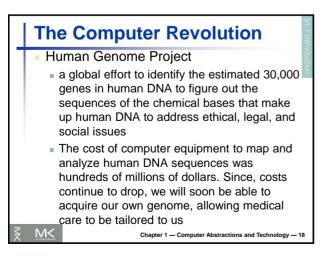




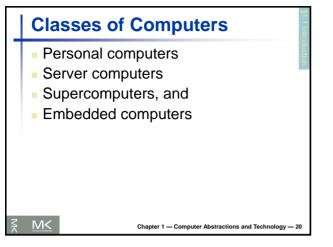


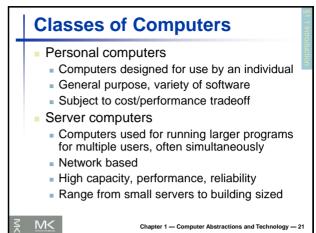


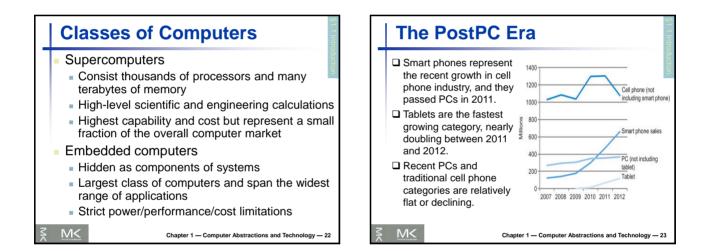


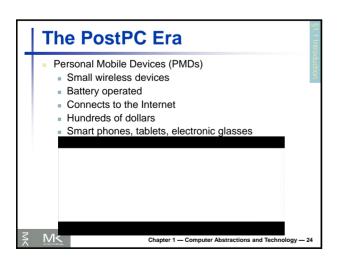


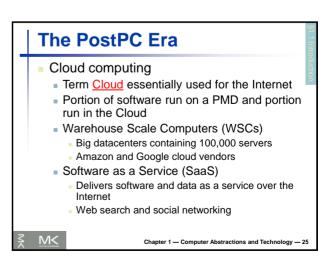
The Computer Revolution			
World Wide Web			
 has transformed our society. Web has replaced libraries and newspapers 			
Search Engines			
 As the content of the web grew in size and in value, many people rely on search engines for such a large part of their lives that it would be a hardship to go without them 			
Chapter 1 — Computer Abstractions and Technology — 1			

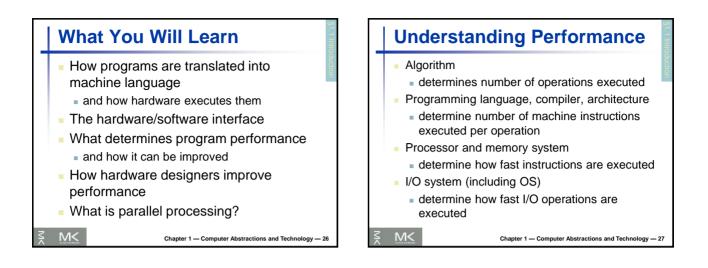


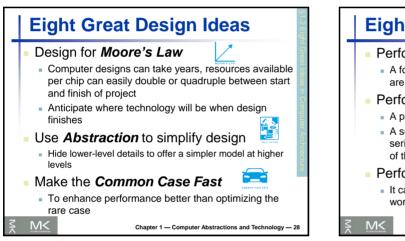


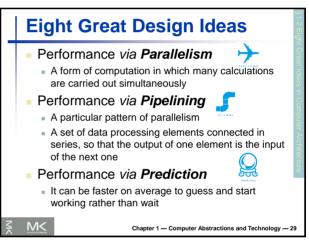


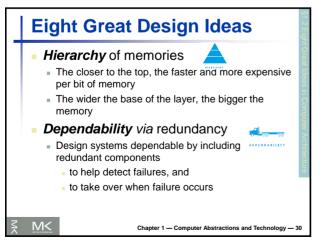


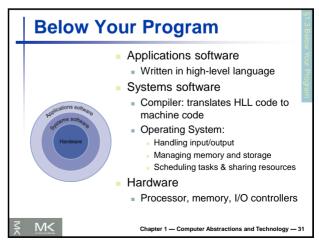


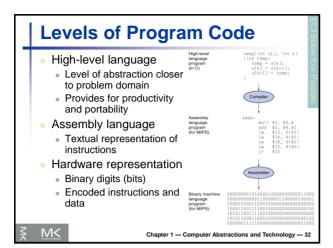


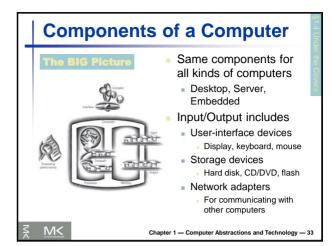


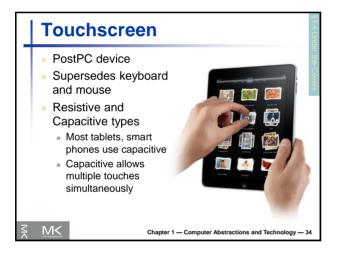


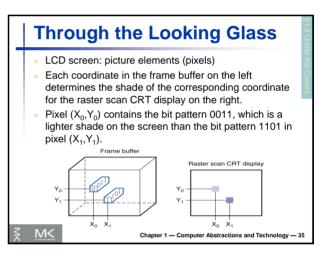


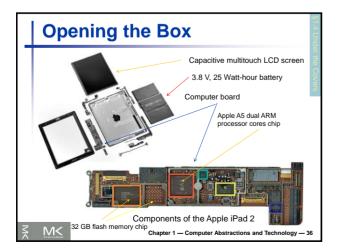


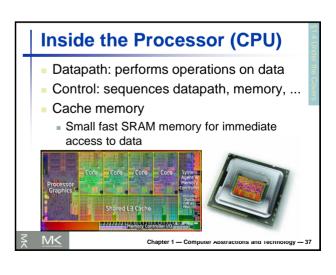


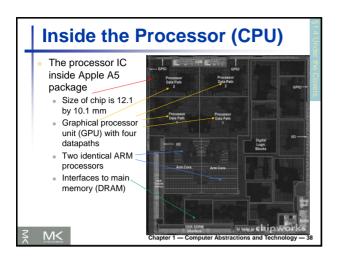


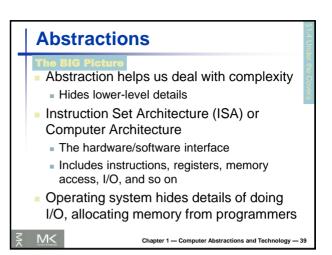


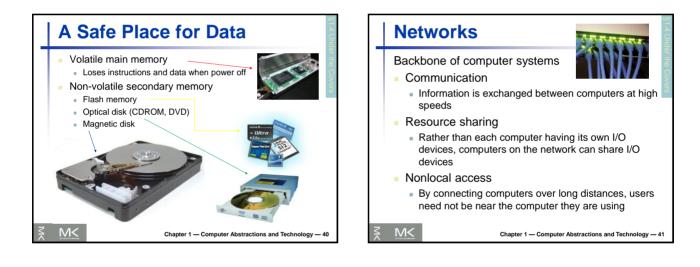


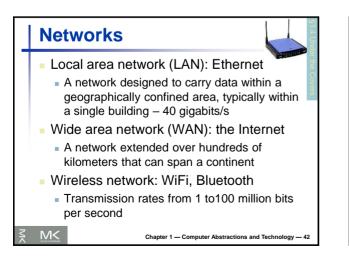


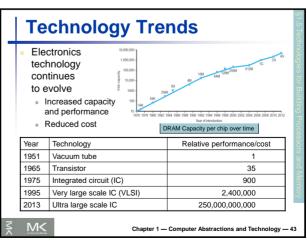


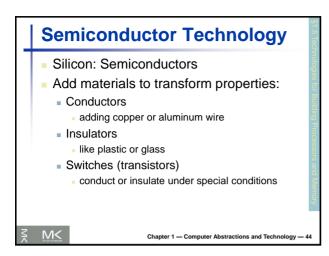


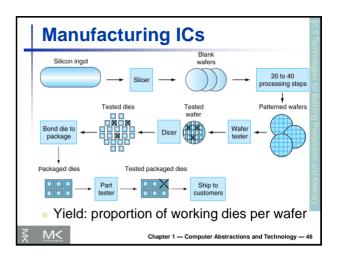


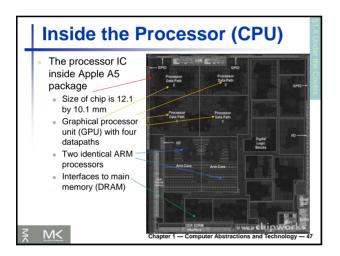


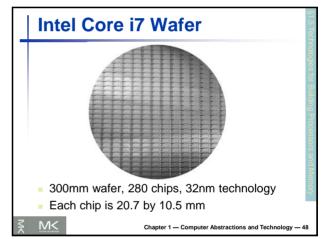


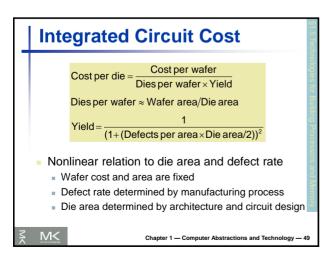


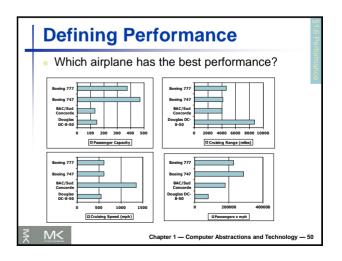


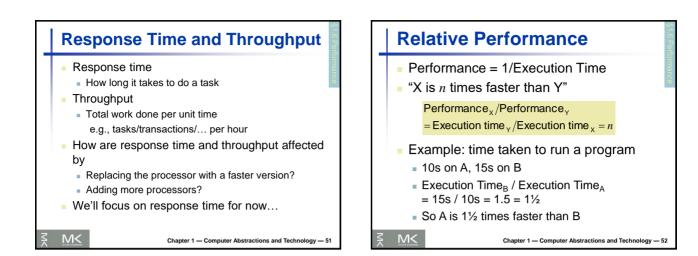


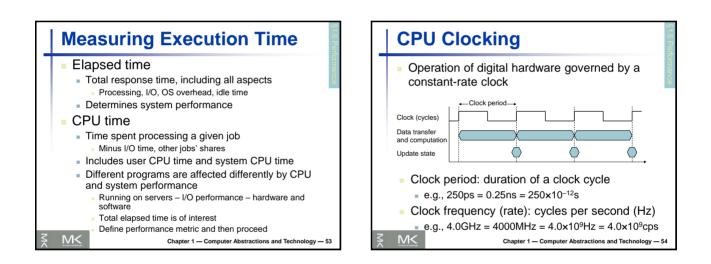


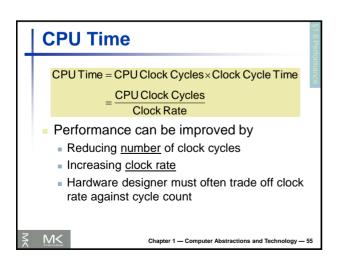


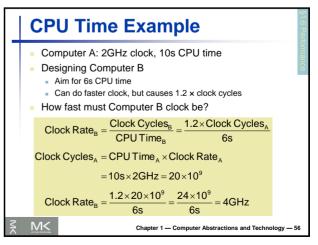


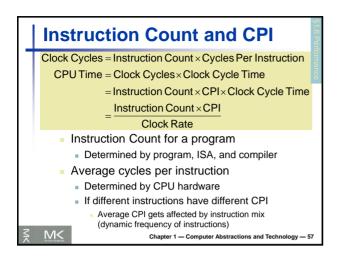


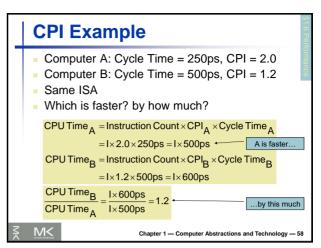


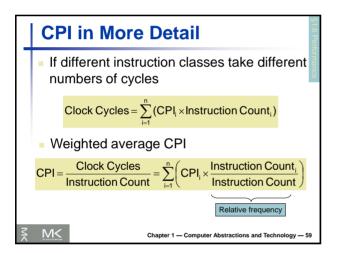












СР	Example				31.01 01	
	 Alternative <u>compiled</u> code sequences using instructions in classes A, B, C 					
	Class	А	В	С		
	CPI for class	1	2	3		
	IC in sequence 1	2	1	2		
	IC in sequence 2	4	1	1		
= CI = .	uence 1: $IC = 5$ ock Cycles $2 \times 1 + 1 \times 2 + 2 \times 3$ 10		equence Clock Cyd = 4×1 + 1 = 9		i	
= Av	/g. CPI = 10/5 = 2.0	0 -	Avg. CPI = 9/6 = 1.5			
<u> ₹ M<</u>	Cł	apter 1 — Comp	outer Abstraction	ns and Technolog	gy — 60	

