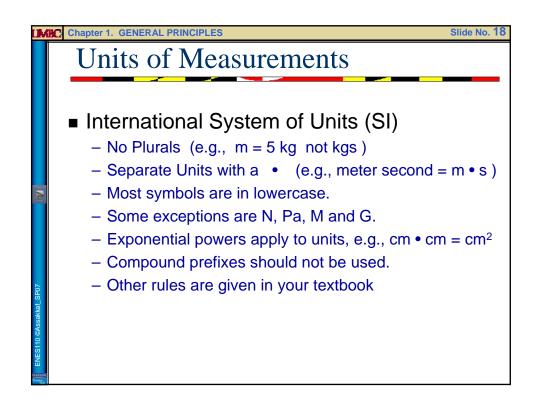
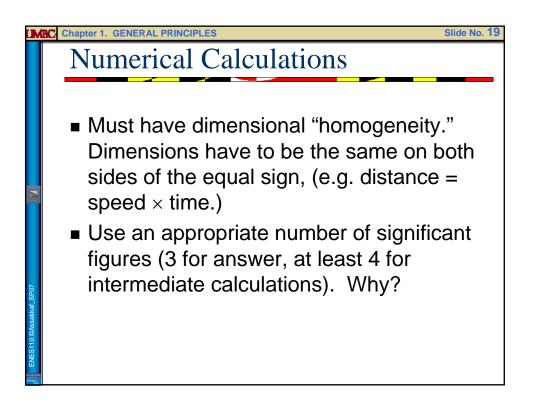


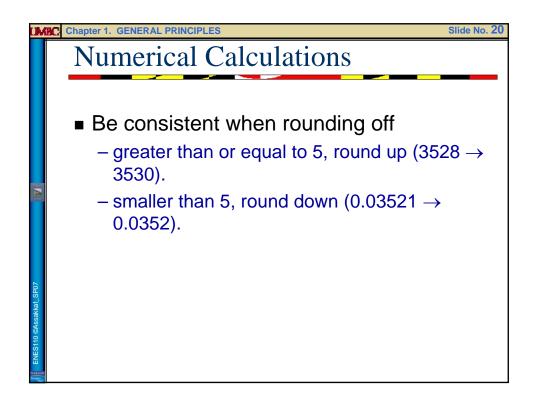
- Svotom o	fllnita			
System o	Units			
Name	Length	Time	Mass	Force
International	meter	second	kilogram	newto
System of Units	(m)	(s)	(kg)	(N
(SI)				$\left(\frac{\mathbf{kg}}{\mathbf{s}^2}\right)$
U.S. Customary	foot	second	slug*	poun
(FPS)	(ft)	(s)	$(lb \cdot s^2)$	(lb
		(-)	$\left(\frac{10}{\text{ft}}\right)$	200000

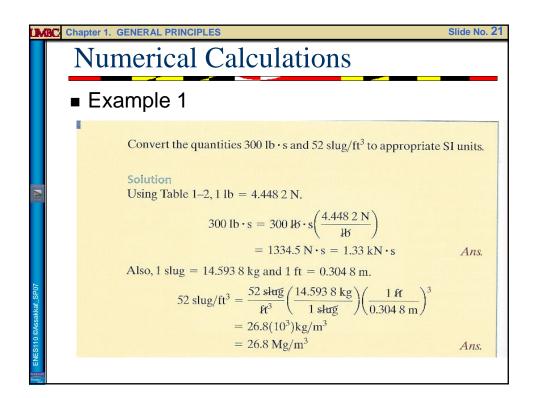
UMBC	Chapter 1. GENERAL I			Slide No. 1
	Units of	Measureme	ents	
	Conversion	sion of Units		
	– In FPS	system		
		= 12 in. (inches)		
		ft = 1 mi (mile)		
A		()	(a)	
) lb = 1 kip (kilo-pour	ia)	
	• 2000	b lb = 1 ton		
	TABLE 1-	2 • Conversion Facto	rs	
202		Unit of		Unit of
ENES110 ©Assakkaf_SP07	Quantity	Measurement (FPS)	Equals	Measurement (SI)
©Assak	Force Mass	Ib		4.448 2 N
S110 (Length	slug ft		14.593 8 kg
ENE				0.304 8 m

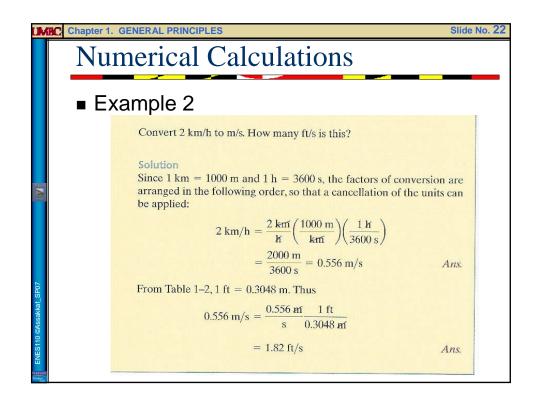
Units of I	Measuren	nents	
Dusting			
Prefixes			
TABLE 1-3	Prefixes		
all and transferrer or any	Exponential Form	Prefix	SI Symbol
Multiple 1 000 000 000 1 000 000 1 000 000 1 000 000	10^9 10^6 10^3	giga mega	G M
Submultiple 0.001 0.000 001 0.000 000 001	10^{-3} 10^{-6}	kilo milli micro	k m µ
0.000 000 001	10^{-9}	nano	n

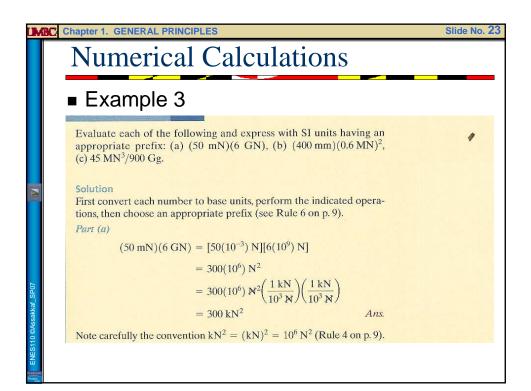












Numerical Calculations					
Evampla	3 (cont'd)				
TABLE 1-3 • Prefixes					
	Exponential Form	Prefix	SI Symbo		
Multiple					
1 000 000 000	109	giga	G		
1 000 000 1 000	10 ⁶	mega	M		
	10^{3}	kilo	k		
Submultiple 0.001	10^{-3}				
0.000 001	10^{-6}	milli	m		
0.000 000 001	10-9	micro	μ		
0.000 000 001	10	nano	n		

