СНАРТЕР	Consistent Consistent Constant	
GHAFTER	FORCE VECTORS	
UMBC	•College of Engineering •Department of Mechanical Engineering	
2a	by Dr. Ibrahim A. Assakkaf SPRING 2007 ENES 110 – Statics Department of Mechanical Engineering University of Maryland Baltimore County	











LM	MHC Chapter 2a. FORCE VECTORS S			
	Scalar and Vectors			
		<u>Scalars</u>	<u>Vectors</u>	
	Examples:	mass, volume	force, velocity	
	Characteristics:	It has a magnitude	It has a magnitude	
A		(positive or negative)	and direction	
	Addition rule:	Simple arithmetic	Cartesian Components	
	Special Notation:	None	Bold font, a line, an	
af_SP07			arrow or a "carrot"	
©Assakk				
ENES110				
TATION .				













































