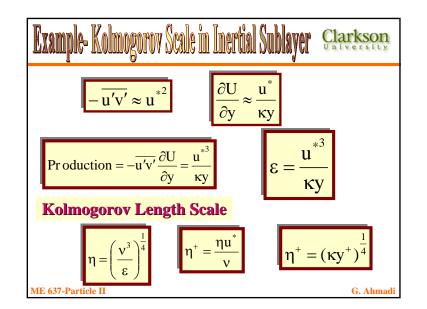


Example Clarkson					
For a pipe with d= 5cm, V= 1.8m/s and Re=10 <sup>5</sup>					
Table of eddy size and frequencies.					
	Eddies	Size	Frequency	]	
	Largest Eddies	25 mm	3.5 Hz		
	Energy Containing Eddies	0.6 mm	140 Hz		
	Most Dissipative Eddies	0.125 mm	450 Hz		
	Kolmogorov Eddies	0.025 mm	1300 Hz		
ME 637-Particle	ME 637-Particle II G. Ahmad				



Kolmogorov Scale in Inertial Sublayer Clarkson			
Turbulence Macroscale	$\Lambda = \kappa y$	$\Lambda^{+} = \frac{\Lambda u^{*}}{\nu} = \kappa y^{+}$	
$y^{+}$	$\eta^{+} = (\kappa y^{+})^{\frac{1}{4}}$	$\Lambda^{\!\!+}=\!\!\kappa \mathbf{y}^{\!\!+}$	
5	1.2	2	
12	1.5	4	
40	2	16	
200	3	80	
1000	45	400	

