

CE3105 Mechanics of Fluids Laboratory, Department of Civil Engineering, Texas Tech University

Experiment: Forces on Plane Surfaces, Archimedes' Principle - Data Sheet

Date of Experiment:			
Name:			
Temperature of water, T=	Celsius	Water density, $\rho =$	
R3 = 200 mm , R2 = 200 mm, R1 = 100 mm			

Archimedes' Principle

Object	Water		ΔV	Volume of Object (measured)	Volume Calculated	Mass of Object	Submerged
	V (Initial)	V (Final)					
Asphalt 1							
Asphalt 2							
Wood 1							
Wood 2							
Concrete 1							
Concrete 2							

Forces on Plane Surfaces -Partially Submerged

Trial	Weight	h	b
Initial			
1			
2			
3			
4			
5			

Forces on Plane Surfaces -Fully Submerged

b= 180 mm

Trial	Weight	h
Initial		
1		
2		
3		
4		
5		

Instructor's Signature _____