





























TABLE 12.1 Typical Values for Elastic Moduli			
Substance	Young's Modulus (N/m²)	Shear Modulus (N/m²)	Bulk Modulus (N/m ²)
Tungsten	$35 imes 10^{10}$	14×10^{10}	20×10^{10}
Steel	$20 imes 10^{10}$	$8.4 imes10^{10}$	6×10^{10}
Copper	$11 imes 10^{10}$	$4.2 imes10^{10}$	14×10^{10}
Brass	9.1×10^{10}	$3.5 imes10^{10}$	6.1×10^{10}
Aluminum	$7.0 imes 10^{10}$	$2.5 imes10^{10}$	$7.0 imes 10^{10}$
Glass	$6.5 - 7.8 \times 10^{10}$	$2.6 - 3.2 \times 10^{10}$	$5.0 - 5.5 \times 10^{10}$
Quartz	$5.6 imes10^{10}$	$2.6 imes10^{10}$	$2.7 imes 10^{10}$
Water	_	_	$0.21 imes 10^{10}$
			9.9×10^{10}