APPENDIX 'J'

U.S. - SI Conversion Factors

From English	To SI	Multiply by	Quantity	From SI	To English	Multiply by
ft	m	0.3048	Length	m	ft	3.2808
inch	mm	25.40		mm	inch	0.039
ft^2	m^2	0.0929	Area	m^2	ft^2	10.764
$inch^2$	mm^2	645.2		mm^2	in^2	0.0015
ft^3	m^3	0.028	Volume	m^3	ft^3	35.714
$inch^3$	mm^3	16387		mm^3	$inch^3$	61×10^{-6}
ft^4	m^4	0.0086	Second	m^4	ft^4	115856
$inch^4$	mm^4	416231	Moment of Area	mm^4	$inch^4$	2×10^{-6}
lbm	kg	0.4536	Mass	kg	lbm	2.2046
lbm/ft^3	kg/m^3	16.02	Mass Density	kg/m^3	lbm/ft^3	0.062
lb	N	4.448	Force	N	lb	0.2248
kip	kN	4.448		kN	kip	0.2248
lbs/ft	N/m	14.59	Force/Unit-	N/m	lbs/ft	0.0685
kips/ft	kN/m	14.59	Length	kN/m	kips/ft	0.0685
lbs/in^2	kPa	6.895	Force/Unit-	kPa	lbs/in^2	0.145
$kips/in^2$	MPa	6.895	Area; Stress;	MPa	$kips/in^2$	0.145
lbs/ft^2	Pa	47.88	Pressure;	Pa	lbs/ft^2	0.021
$kips/ft^2$	kPa	47.88	Elastic Mod.	kPa	$kips/ft^2$	0.021

see over for survey foot