

# Appendix E: U.S. Customary Units and Their SI Equivalents

U.S. Customary Units and Their SI Equivalents		
Quantity	U.S. Customary Units	SI Equivalent
Area	ft <sup>2</sup>	0.0929 m <sup>2</sup>
	in <sup>2</sup>	645.2 mm <sup>2</sup>
Force	kip	4.448 kN
	lbf	4.448 N
Length	ft	0.3048 m
	in	25.40 mm
Moment	ft-lbf	1.356 N-m
	ft-kip	1.355 × 10 <sup>-4</sup> kN-m
	in-lbf	0.1130 N-m
	in-kip	1.130 × 10 <sup>-4</sup> kN-m
Moment of Inertia	in <sup>4</sup>	0.4162 × 10 <sup>6</sup> mm <sup>4</sup>
Stress	lbf/ft <sup>2</sup>	47.88 Pa
	lbf/in <sup>2</sup> (psi)	6.895 kPa
	kip/in <sup>2</sup> (ksi)	6895.0 kPa

