

SI System

| | | |
|--------|----------|----|
| Length | meter | m |
| Time | second | s |
| Mass | kilogram | kg |
| Force | newton | n |

Temperature

Absolute Temperature

Earth's gravity $g=9.81\text{m/s}^2$

Density

Sutherland Equation

Pressure

Rate of Shearing Strain

BG System

| | | |
|----------------------|-----------------------|------|
| Length | foot | ft |
| Time | second | s |
| Mass | slug | slug |
| Force | pound | lb |
| Temperature | degree Farenh-eight | F |
| Absolute Temperature | degree Rankine | R |
| Earth's gravity | $g=32.2\text{ft/s}^2$ | |

Andrade's Equation

Specific Gravity

Ideal Gas Law

Shearing Stress

EE System

| | | |
|----------------------|-----------------------|-----|
| Length | foot | ft |
| Time | second | s |
| Mass | pound mass | lbm |
| Force | pound force | lbf |
| Temperature | degree Farenh-eight | F |
| Absolute Temperature | degree Rankine | R |
| Earth's gravity | $g=32.2\text{ft/s}^2$ | |

Specific Weight

Specific Volume

Velocity Gradient

Kinematic Viscosity

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Page 1 of 1.

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