
Constitutive relations

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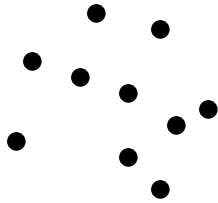
_____ universally applicable
Often called "_____" anyway

Examples

_____ "Law"

Linear spring

Ideal Gases



- _____
- Have _____ only*
- Completely _____ collisions
- Reasonable model in many situations
- Strictly true as _____ → _____

* _____ vs. ideal gas

Forms of the ideal gas equation

From chemistry:

$nM =$

$$P\psi = nR_u T$$

_____ ideal gas
constant

$$\frac{R_u}{M} =$$



$$R_u = 8.314 \text{ KJ/kmol-K} = 8.314 \text{ J/mol-K}$$

Other forms

