

The curve in Figure 16.11 of the text shows how the vibrational heat capacity depends on temperature. Note that even when the temperature is only slightly above the vibrational temperature, the heat capacity is close to its equipartition value.

The total heat capacity of a molecular substance is the sum of each contribution (Figure 16.12 of the text). When equipartition is valid (when the temperature is well above the characteristic temperature of the mode $T \gg \theta_M$) we can estimate the heat capacity by counting the numbers of modes that are active. In gases, all three translational modes are always active and contribute $\frac{3}{2}R$ to the molar heat capacity. If we denote the number of active rotational modes by ν_R^\ddagger (so for most molecules at normal temperatures $\nu_R^\ddagger = 2$ for linear molecules, and 3 for non-linear molecules), then

the heat capacity is given by $C_{V,m} = \frac{3}{2}R + \frac{\nu_R^\ddagger}{2}R + \frac{\nu_V}{2}R$, where ν_V is the number of active vibrational modes. For a diatomic molecule, $\nu_V = 1$ at room temperature, and the heat capacity is $C_{V,m} = \frac{5}{2}R$. For a triatomic molecule, $\nu_V = 2$ at room temperature, and the heat capacity is $C_{V,m} = 3R$.

$$C_{V,m} = \frac{3}{2}R + \frac{\nu_R^\ddagger}{2}R + \frac{\nu_V}{2}R$$

The equipartition theorem states that each degree of freedom contributes $\frac{1}{2}kT$ to the internal energy of a molecule. For a diatomic molecule, there are three translational degrees of freedom, two rotational degrees of freedom, and one vibrational degree of freedom. Each degree of freedom contributes $\frac{1}{2}kT$ to the internal energy. The total internal energy is $U = \frac{5}{2}kT$. The heat capacity is $C_V = \frac{dU}{dT} = \frac{5}{2}k$. For a triatomic molecule, there are three translational degrees of freedom, three rotational degrees of freedom, and two vibrational degrees of freedom. Each degree of freedom contributes $\frac{1}{2}kT$ to the internal energy. The total internal energy is $U = 3kT$. The heat capacity is $C_V = \frac{dU}{dT} = 3k$.

Solutions to exercises

The heat capacity is given by $C_V = \frac{dU}{dT}$. The internal energy is $U = \frac{5}{2}kT$. The heat capacity is $C_V = \frac{dU}{dT} = \frac{5}{2}k$.

$$C_V = \frac{5}{2}k$$

For a triatomic molecule, there are three translational degrees of freedom, three rotational degrees of freedom, and two vibrational degrees of freedom.

$$C_V = \frac{3}{2}k + \frac{3}{2}k + \frac{2}{2}k = 3k$$

For a diatomic molecule, there are three translational degrees of freedom, two rotational degrees of freedom, and one vibrational degree of freedom.

$$C_V = \frac{3}{2}k + \frac{2}{2}k + \frac{1}{2}k = \frac{5}{2}k$$

$$C_{V,m} = \frac{5}{2}R + \frac{\nu_R^\ddagger}{2}R + \frac{\nu_V}{2}R$$

For a diatomic molecule, $\nu_R^\ddagger = 2$ and $\nu_V = 1$.

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Daniela Niemeyer



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d local tournaments hosted by jka dojos 2 all tournaments in all countries shall abide by this present document item 3 rules of conduct for all participants all participants shall act in accordance to the highest standards of ability and of fair play in the spirit of karate do and strive to the utmost respect and dignity towards

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november 17 and 18 2023 in arnhem the netherlands will be held kwf world kyokushin karate championships among children juniors and seniors thursday november 16 12 00 19 00 registration of the teams 20 00 22 00 referee briefing t b d general meeting friday november 17 6 tatami 10 00 12 00 kata championships all categories

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karate styles embracing these rules are often called knockdown karate styles and these include both organizations that originated from kyokushin such as shidōkan karate ashihara karate enshin karate shinden kai and seidokaikan the style that originated the k 1 as well as styles that originated independently from kyokushin such as

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each opponent faced will be fresh and not fatigued or injured each of the rounds are done under test conditions where either of the fighters are allowed to deliver knock out blows the challenge was devised by masutatsu oyama the founder of kyokushin and

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normally knockdown rules include no protectors or guards are used with exception to groin guards and teeth protection 3 minutes match time the fighter that achieves an ippon one point will win the match and the fight is stopped

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5 fight duration the length of each round is one minute match times may be extended up to 2 minutes if divisions are under 5 opponents 6 legal techniques no head contact open hand strikes punches elbow strikes knee kicks and straight kicks to the body and legs circular kicks to the body and legs

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rules all world open tournaments operate under knockdown karate rules which involve standup bareknuckle fighting with basically no protection the more characteristic rules in knockdown karate compared to other styles are that you are not allowed to punch in the face and a point system that only counts hits that actually hurt the opponent

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