

**Problem Set 5**  
**Solutions - McQuarrie Problems**  
**3.20 MIT**  
**Dr. Anton Van Der Ven**  
**Fall 2003**

**Problem 3-4**

We have to derive the thermodynamic properties of an ideal monatomic gas from the following:

$$\Theta = e^{q\lambda}$$

$$\lambda = e^{\beta\mu} \text{ and } q = \left( \frac{2\pi mkT}{h^2} \right)^{\frac{3}{2}} V$$

$\Theta$  is the partition function for the grand canonical ensemble, where  $T, V, \mu$  are fixed. The characteristic potential for the grand canonical ensemble is the "grand canonical potential".

$$\phi = E - TS - \mu N = -pV$$

(since  $E = TS - pV + \mu N$ )

$$d\phi = -SdT - pdV - Nd\mu$$

The thermodynamic properties for the grand canonical ensemble are:

$$S = - \left( \frac{\partial \phi}{\partial T} \right)_{N, V}$$

$$p = - \left( \frac{\partial \phi}{\partial V} \right)_{T, \mu}$$

$$N = - \left( \frac{\partial \phi}{\partial \mu} \right)_{T, V}$$

The grand canonical potential is related to  $\Theta$  according to

$$\phi = -kT \ln \Theta \quad (\text{see table 3-1})$$

but  $\Theta = e^{q\lambda}$  so,

$$\phi = -kT \cdot q\lambda = -kT \cdot \left( \frac{2\pi mkT}{h^2} \right)^{\frac{3}{2}} V \cdot e^{\beta\mu} = - (kT)^{\frac{5}{2}} \left( \frac{2\pi m}{h^2} \right)^{\frac{3}{2}} V \cdot \exp \left( \frac{\mu}{kT} \right)$$

Starting with  $N$ ,

$$N = - \left( \frac{\partial \phi}{\partial \mu} \right)_{T, V} = \left( \frac{2\pi mkT}{h^2} \right)^{\frac{3}{2}} V \cdot \exp \left( \frac{\mu}{kT} \right) \quad (3-8-11)$$

and  $p$

$$p = - \left( \frac{\partial \phi}{\partial V} \right)_{T, \mu} = kT \left( \frac{2\pi mkT}{h^2} \right)^{\frac{3}{2}} \exp \left( \frac{\mu}{kT} \right)$$

Putting those together we can get the ideal gas equation of state, namely

$$p = \frac{N}{V} kT$$

Now  $S$ ,

$$S = - \left( \frac{\partial \phi}{\partial T} \right)_{N, V} = \frac{5}{2} k \cdot (kT)^{\frac{3}{2}} \left( \frac{2\pi m}{h^2} \right)^{\frac{3}{2}} V e^{\beta\mu} + (kT)^{\frac{3}{2}} \left( \frac{2\pi m}{h^2} \right)^{\frac{3}{2}} V \left( \frac{-\mu}{kT^2} \right) e^{\beta\mu}$$

# Problem Set 5 Solutions Mcquarrie Problems 3 20 Mit Dr

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**Problem Set 5 Solutions Mcquarrie Problems 3 20 Mit Dr:**

Problem Set 5 Solutions Mcquarrie Problems 3 20 Mit Dr: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. Problem Set 5 Solutions Mcquarrie Problems 3 20 Mit Dr : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Problem Set 5 Solutions Mcquarrie Problems 3 20 Mit Dr : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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