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习经心./.

は明、
$$P = -\frac{5}{5}$$
 at $\frac{3}{5}\sqrt{\frac{1}{5}} = -\frac{5}{5}$ at $\frac{3}{5}\sqrt{\frac{1}{5}}\sqrt{\frac{1}{5}}$ $\frac{1}{5}\sqrt{\frac{1}{5}$

7.4.证明: 美设分,5, …免批的对应的的知题 包5 SHI SHOW ... SWAFFERSTONEA DRYS" PS = e-x-PES 三 e-α-βες ph≠处在5株生不的较好数 $F_{E}^{2} | P = TT, P(s) = P_{s} \left(\sum_{s=s, e}^{s} e^{-\alpha - \beta Es} \right) \cdot P_{s} \cdot \left(\sum_{s=s, e}^{s} e^{-\alpha - \beta \theta Es} \right)$ $P(S') = P_{S'} \bullet \left(\sum_{s \in S} e^{-\alpha - \beta \epsilon_{S'}} \right)$ $P(S'') = P_{S''} \left(\sum_{s \in S} e^{-\alpha - \beta \epsilon_{S''}} \right)$ 15=LLAA 18上式化入台村里 MAGG: S=-kN ZPs lnPs

+ 4 - 9

数据的信息经验



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7.16, 20: $6 = \frac{1}{2m} (0 / x^2 + / y^2 + / z^2) + ax^2 + bx$ $= \frac{P^2}{2m} + a(x^2 + \frac{bx}{a} + \frac{b^2}{4a^2}) - \frac{b^2}{4a}$
7
= (Px2+Py2+P2) + a(x+ (2)) - 5/a
by the in the interpretation of the interpre
00 4 = 267 - Fa

7.17. VEOD; (v = (2))
$Z = \frac{1}{h^3} \int e^{-\frac{1}{2m}(P_x^2 + P_y^2 + P_z^2)} - \beta mgz \int dx dy dz dy dz dy dz$ $Z = \frac{5}{h^3} \int e^{-\frac{1}{2m}P_x} dP_x \int e^{-\frac{1}{2m}P_x} dP_x$
$Z = \frac{s}{h^3} \left(\int e^{-\frac{s}{2m} f_X} dp_X \right) \int_{-\infty}^{H} e^{-\frac{s}{2m} g_Z} dz$
$\frac{2}{2} = \frac{1}{13} \left(\frac{1}{12} e^{-\frac{1}{12}} \left(\frac{1}{1} - e^{-\frac{1}{12}} e^{-\frac{1}{12}} \right) \left(\frac{1}{12} - e^{-\frac{1}{12}} e^{-\frac{1}{12}} \right) \left(\frac{1}{12} - e^{-\frac{1}{12}} e^{-\frac{1}{12}} \right)$ $\frac{1}{12} \left(\frac{1}{12} e^{-\frac{1}{12}} e^{-\frac{1}12} e^{-\frac{1}12}} e^{-\frac{1}{12}} e^{-\frac{1}12}$
Thomas In 1/3:
ln Z = (ln = 2 (mx) = mg) - 5 ln B + ln (1- e- Pmg H)
$ \frac{\ln Z = \left(\ln \frac{1}{h^{3}} \left(2mx\right)^{\frac{3}{2}} \frac{1}{mg}\right) - \frac{5}{2} \ln \beta + \ln \left(1 - e^{-\beta mg H}\right)}{\left(\ln \frac{1}{h^{3}} - 1\right) - \frac{1}{2} \ln \beta + \ln \left(1 - e^{-\beta mg H}\right)} $ $ \frac{\ln Z}{\ln \beta} = -NkT + \frac{NmgH}{e^{kT}-1} = \cot V_{0} - V_{0} $
V-edg=Vo+NhT-NmgH
FEA CAT-
Cy = Cy + Nky - N (mgH) 2 e to Q
b, 1) (Mg) 1) 1

7, (8.20)
$$Z = \frac{e^{-\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}}$$

$$\ln Z = -\frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}} - \ln (1-e^{-\frac{1}{2}\hbar\omega})$$

$$\int -\frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}} - \frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}}$$

$$\int -\frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}} - \frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}} - \frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}}$$

$$\int -\frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}} - \ln (1-e^{-\frac{1}{2}\hbar\omega}) - \frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}}$$

$$\int -\frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}} - \ln (1-e^{-\frac{1}{2}\hbar\omega}) - \frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}} - \frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}}$$

$$\int -\frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}} - \ln (1-e^{-\frac{1}{2}\hbar\omega}) - \frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\hbar\omega}} - \frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\omega}} - \frac{h^{\frac{1}{2}\omega}}{1-e^{-\frac{1}{2}\omega}}$$