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2301/ TE = SAI) 4.0

76 A 138 A dt

TO A Sper A olt.

4/V 38/100 A.olt.

Take = 可能 = Take mant = Town =

$$\frac{4. \text{ (1). } \int_{0}^{\infty} A v^{2} \cdot dv = \int_{0}^{V_{0}} A v^{2} \cdot dv = \frac{4}{3} V_{0}^{3} = 1.$$

$$A = \frac{3}{V_{0}^{2}}$$

(2).
$$\bar{V} = \int_{0}^{V_{0}} A V^{2} \cdot V \cdot dV = A \cdot \frac{V_{0}^{4}}{4} = \frac{3}{4} V_{0}$$

$$\overline{V}^2 = \int_0^{V_0} A V^2 \cdot V^2 \cdot dV = A \cdot \frac{V_0 s}{s} = \frac{3}{5} V_0^2$$

$$\sqrt{\bar{V}^2} = \sqrt{\frac{3kJ}{m}} = \sqrt{\frac{3RJ}{M}}$$

$$= \ln \frac{n_0}{n_f} = \ln \frac{P}{P_0}.$$

(3在中压锅为户时刻

$$dN = \frac{1}{4}n_i v dt$$
.

n = PU = 7.25 × 1022 (2). V= V 2 = 12.6 m/s. 1= 100 = 1 = 10 = 1 = 100 = 1 = 100 = 1 (3). N= 4. N. J. A= 4. D. J. A= 2.28 x10 7 4). dn = N.dt = 4P. V.A.d+ Jro AV dn = John E= [AV JE JV=A] = 3-163. = 4V. (ne = 3.17x105c (5) Q===nnv===n.m. 3kT = 3nkTo = 3nk T. dN = 1 n PRT. A. dt T=noTo dn= n 1/8R7.R. A. dt. 10,87 = 19; PV n= 11/2 = 1/1/887.00 n. A.dt. 小工工工品 14V1/7/2 dn = Solt = 41/200 - 26000- VIO) = 8/1/74 (1-VE). $=\frac{8V}{A\bar{v}}(1-\sqrt{\dot{e}})=2.5x10^{\frac{1}{5}}$