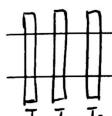
P 252. 19-2

1253, 19-4

(1)
$$P_{E} = P = P = 4\pi PR^{2}s_{E}$$

(2)
$$M = \frac{P_E}{4\pi R^2} = P \frac{Rs_E^2}{R^2} = 6T^4 = T = (\frac{PRs_E^2}{GR^2})^4$$

P253. 19-8



P253.14-10

$$AA = M(\lambda_0,T) = 2\pi hc^2 \lambda^{-5} e^{hc/4\alpha \lambda_0} \cdot P = \int_{\lambda_0}^{\lambda_0} M(\lambda_0,T) d\lambda - S$$

$$P_0 = 6T^4 S = S = \frac{P_0}{6T^4} = SM(\lambda_0,T) \cdot d\lambda = hh \lesssim_0$$

```
P255. 19-13
  111 O) = Ac. (1-(.50) = Ac= 2.43x10-12m= 0.00243 nm
   i. \lambda' = a\lambda + \lambda_0 = 0.1 + 0.00243 = 0.10243 \text{ nm}.
\frac{(2)}{hu_{1}} + \frac{hu_{2}}{hv_{3}} = 0.140.00248 = 0.10248 \text{ mm}.
\frac{(2)}{hu_{1}} + \frac{hu_{2}}{hv_{3}} + \frac{hu_{1}}{hv_{2}} = \frac{hu_{1}}{hv_{3}} + \frac{hu_{2}}{hv_{3}} = \frac{hu_{2}}{hv_{3}} + \frac{hu_{2}}{hv_{2}} = \frac{hu_{2}}{hv_{3}} + \frac{hu_{2}}{hv_{3}} + \frac{hu_{2}}{hv_{3}} = \frac{hu_{2}}{hv_{3}} + \frac{hu_{2}}{hv_{3}} + \frac{hu_{2}}{hv_{3}} 
      EL= h(Us-U) = hC(文, -文)= 291eU
      P 253.19-14
         hU_0 = E_0 \Rightarrow U_0 = \frac{E_0}{h} = \frac{C}{E_0}

\lambda' = 1.2\lambda_0 E_k = hU_0 - hU_1 = hV_0 - h\frac{C}{L_0} = hC(\frac{1}{L_0} - \frac{5}{\lambda_0 \cdot 1})

= hC \frac{1}{L_0} = \frac{1}{L_0} hU_0 = U.lo MeV
        P234. 19-18.
 L= hh = mu \cdot R, mu^{k} = quis =  k^{2} = \frac{nh}{qis}

h = \frac{nh}{qis} h = 1, 2, 3, ..., \frac{qi = (m - m')c^{2} = m}{qis}

E_{k} = m(1 - \frac{1}{1-\frac{qi}{qis}})c^{2}, U = \frac{qish}{qis}
```

1254. 19-3. Am·T=cmst. に入えく入1, M=674にM2>M1 P255. 19-7 P255 19-8

NU = ImVm+A Une = ImVm => hU= Une+A

=> # Une = & D > A :> A : . B

hu-A,=E, hu-A,=E, E,>E, => hu-A, >hu-A 1. U> L+ (A,-A)

1255. 19-9

74 Va= & V- & hu=A >> Va= & V- & Va = & (V-Va)

1. 12-16 = 2(1-10) => 12 = 241-16 (

1255.19-11

Ion LD

P255, 19-12.

A= h = hv = imunt A, mun = Bev => Ku= RBe ! E= NV = Im (RBC) + h = Pige + h = 1.12

P 292. 20.-9 OX= U.I A = U.U nm . OXOP > = => OP > == 5-27×10-4 kgm/s $ox.op = h = op = \frac{h}{dx} = 6.63 \times 10^{-33} kg m/s$ $oE = 4 \frac{ep^2}{2m}) = \frac{pop}{m} = (\frac{2E_0}{m})^2 op = 1.24 \times 10^{-18} J$ P292-21-11 $\Delta l = W^{9} \text{ nm} = 10^{-18} \text{ m}. \quad \lambda = 434.05 \text{ nm} = 4.3405 \times 10^{-7} \text{ m}.$ の= かめ のE= の· C = かの で・ひょれ => ひと サー かい = かい = 5×10*115 1292. 20-13 $\frac{4 \sqrt{3} + 2 \sqrt{3}}{E + 2 \sqrt{3}} = \frac{e^{2}}{4 \sqrt{3}} = \frac{e^{2}}{8 \sqrt{3}}$ Enn = - (= - 136eV . 松品制造体. 是川PON=川髭dV. P=平以的平以的, 器=亚疆+亚疆. Ditate=EY=-新光生+UY 二) 是里=注册数7里+ 监里, 崇中均数数. · 元空= -i 加空空- 清空 = i 型区空)空- 四空)里 若经的调型=0、则得证:

一种的流外

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