Physics 734 X

Palish - Jours James & Shefan - Boltomann

Ly volume 13

temperature 1

Livi - Blackboly and bound thermal dulcharin from ashine undialion is the balls drawbaring of

P = The power (8)

with swafes were it

on 5.6710 -8 W/meka

This Towns Alength to bring this formula from first pennegles.

by summing over the Str. field in the Loss This requires one to

falcabele the ## of Abanling 1974 makes in a volume 123.

55 M vares solisty Taplaces Funtion

22 p + 22 y + 2 y + 2 p = 0

where $k = k_2^2 \cdot k_2^2 \cdot k_3^2$. This separates the equation into a product of the in the roy of brushions all of which remish of the boundaries 0 ? L.

Har, my ng Je Wsie (Max 2) sir (May) sir (May 2) L= 1 (nx + n = + nx =) where (no, my ma) are position interess. Or wish to Guest how many makes

(mx, my ma) there are. Surteling to spherical constrictes interesting one to,

taking up account spal till all = mi N(E) de = 1.2. 4ak2 Sk = NK2 N= L3 The 2 feebon ares for supportant to the spece n:>0 Complementing a darsie Bottomanne Moderation calculation the are onegy per cause year.

See-E/KoT SE Se-E/KET DE Alley the would to the expression for the # of sharing work makes, $\frac{1}{N} = \frac{1}{4} \int \frac{k^2}{k^2} dk = \frac{1}{4} \int \frac{8\pi \cdot \sqrt{3} \cdot \sqrt{3}}{\sqrt{3}} = \frac{1}{4} \int \frac{8\pi}{3^4} \int_{2}^{2}$ Since &= 29 = 29.

the som are:

This result neither expendences bereation non the Stefan Blomann Jan. The Adales is not self another, as the integral liveyes for laye the small a. frequency ~ (Ne) La kigh Jeans Pesult. In 1900 Planck revise this by eighting the claimed Toleman wateral over energy mej tra by . Hisrack show counterporter & oney fromtite new president This ac Salfer due 21/2... where 2 re modfres on chentation and $\frac{\sum_{n=0}^{\infty} \frac{1}{nhv} \frac{1}{k_BT}}{\sum_{n=0}^{\infty} \frac{1}{nhv} \frac{1}{k_BT}} = \frac{1}{\sum_{n=0}^{\infty} \frac{1}{nhv} \frac{1}{k_BT}} \frac{\sum_{n=0}^{\infty} \frac{1}{nhv} \frac{1}{k_BT}}{\sum_{n=0}^{\infty} \frac{1}{k_BT}} \frac{1}{nhv} \frac{1}{k_BT} \frac{1}{nhv} \frac{$ A bit of afoline yills

= hv

= hv/koT - 7 which pelds

E = \ PE(v) du $S(v) = \frac{8\pi h}{c^3} \frac{v^3}{hv/t_0T-7} \Longrightarrow \begin{cases} \frac{8\pi v^2}{c^3} & \frac{2v}{k_BT} \ll 7 \\ \frac{8\pi h}{c^3} & \frac{hv}{k_BT} \ll 7 \end{cases}$ Max Planck Levelt.

Fotobilais Effect. Ab the same time bled both relation was confuser physicists, experiments oranine the amission of chelpins from motal sweeper when show up wer fit. Superineral solars plate market Twent for ten plate vie Compton Satterion The strong at the first the Meiler & :. 50 surface plater 2 - 2: = 52 = 2 (1-200) Learths from experiment: ! the # but not the Every of photoelectrone lyens on like intermedy 2 photostetrons appear at soon as light to truend on even if
3. photostetron every closers on the forequery of light
higher frequency value) so high every of

Home results were surespecte in the classical gridure of light as a wave. words the glob, anomal e- Coton for the war wint be Suched for or comission is really or would be cometter to some energy as of the inidered find had a Affect Sinstein in 1909 jugose to notion of van particle Luckey to she than van adage in packets of manta of overy his. They answer that have LE + ho frontion. I ver, In any experience to know an or from the moth the work from the experiment La Boughie : the Bohn Aform Buth every 1900s many experiments had been she observing the somption is common of noise is object from simple shows As to bending every of hydron is -196eV where the principle countries # takes In where where we are 1, ?, 3, ... The emission dies armagon to energies to energies

ni = -18.6eV / - - 1

npc ni

npc

The principle pumber He lesertes has loss on it is from the meelens. may manage of in the regard that the Navier "serier" had been ilentified Below (instant): DE: -13.6.0 / 1 - 1 $\frac{2}{1} = \frac{1}{n_1^2}$ $\frac{1}{1} = \frac{1}{n_1^2}$ $\frac{1}{1} = \frac{1}{n_1^2}$ $\frac{1}{3} = \frac{1}{n_1^2}$ Zestrefer payers the mole of the alon as & bound & entertay a narelus. En relte the ile of Marotisation in 1913. He found a Similar and of a in arabe abils around the nucleus, where /Fxp/s mr = nh nt ashere to is glametes anotant. This male repulsies the results above. 1. Atomis systems on exist only in certain stationary on mantisic backs del dranackarise for a liferite energy .

Transition Let The males dos two importants things with. 2. Transfirm behaven e- stoke an own via chamption on emotion of reduction by every &= how in forement of Einstein 10 Danch.

that mughe purbicles may she as so waves - that to purheum mechanics. - Manuel har-touched 50 M weres as particles, ABregha synthe To = hr = h a purhaps a massive partiel schiffies the sum relationships Te = mo = h => 2 = h a partielés de Bustie conseque on Saldes the accompance of an Son & to allegate wonderst of an e-maige of No ~ 2.01 are find 2~2A, Soul the same. De Brylis accord for the Bohn mode of the alon by superbing the or superbing the or superbing the superbing to an independent of letting wearlengths. Atomis orbitale arrugan to an integra # & & Busti warelighten.