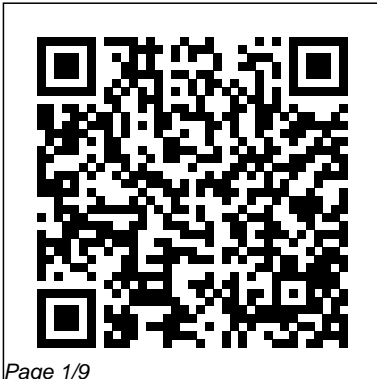

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logic chip in a computer dissipates 3 W of power.

The amount heat dissipated in 8 h and the heat flux on the surface of the chip are to be determined.

Assumptions Heat transfer from the surface is uniform. Analysis (a) The amount of heat the chip dissipates during an 8-hour period is $Q_{Qt} = 3 \text{ W} \times 8 \text{ h} = 0.024 \text{ kWh}$

Thermodynamics An Engineering Approach

EES Solution: "Using linear regression feature of EES based on the data on parametric table, we obtain" $\rho = 1.20251659E+00 - 1.01669722E-01 \cdot z + 2.23747073E-03 \cdot z^2$ $z = 7 \text{ [km]}$ "The mass of the atmosphere is obtained by integration to be" $m = 4 \cdot \pi \cdot (a \cdot r_0^2 \cdot$

$h + r_0 \cdot (2 \cdot a + b \cdot r_0) \cdot h^2 / 2 + (a + 2 \cdot b \cdot r_0 + c \cdot r_0^2) \cdot h^3 / 3 + (b + 2 \cdot c \cdot r_0 + c \cdot h^5 / 5) \cdot 1E9$ $a = 1.20252$
 $b = -0.101670$ $c = 0.0022375$ $r, \text{ km}$ $z, \text{ km}$ $\rho, \text{ kg/m}^3$
6377 0 1.225 6378 1
1.112 6379 2 1.007 6380 3 0.9093
6381 4 0.8194 6382 5 0.7364 6383
6 0.6601 6385 8 0.5258 6387 10 ...

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r=6377; h= m=4pi(ar^2*h+r(2a+br)h^2/2+(a+2br+cr^2)h^3/3+(b+2cr)h^4/4+ch^5/5)1E+ PROPRIETARY MATERIAL.

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