Côp.8, vol 2: Mayon Novang Veigo Promoison Johnson Marand axiomant Obc-Fisher Bodon obodon Manga, 2025

OT Superha que toda enersia potencial de uma massa m seja usado para aquel-lo:

mgh = m.c. at = 2 at = 8h - 9,81,50 = 0,117°C

02) a) C1 = 1 (464 . 73 T

 $= \frac{464}{10.381^3} \cdot \frac{79}{10} |_{10}^{20} = 0,0784 \text{ call K.md}$

b) Q= n & AT = m & AT

- - 103 . 0,0784.10 × 13,4 col

Pad Fot

Pora volos dode constante: Fot = Poro = mg son O

per occo per occopia de la granda de la gran

Em Tun = 602: E= 1 mbalg. 60 = 0'T 10; 0'81 valo, 60 = 109572

 $3m = \frac{\Delta}{L} = \frac{2443}{80} = 30.539$ per minute

09 a) E=P. A. At = (1.36.103). (7 [6,4.106]2). 24.60.60 = 1,51.1083

6) Energio para suppron: E=v=0,23 E=3,477-10 5 =8,312.10 col

Que produz : m = 8313.1030 = 1,4088.1089 = 1,4088.10!5kg

Nobeme: N= 1,413.1012 m3

Anso do Terro: $A = 4\pi R^2 = 5.11.10^{14} n^2$ or A = 0.389 cm Coberla per 820: $0.71.A = 3.629.10^{19}m^2$

05 pai 250 (T-20) + 500.1-(T-20) +100.80 + 100.1. (T-0)=0 2507 - 5000 +5007 -10000 +8000 +100T=0 5257-1050 as 652,5 T = 3050 => T= 4,67°C DB) 200 0,09. (26,3-30) +250. L (26,3-30) +150.c. (26,3-15)=0 -7-6616 - d92 + 1602c=0 > c=0,585 callo°C (D) (39,7-0) + 100.1.39,7 + 100.80+100.1.39,7 = 17900 col + P= & = 74893,6 = 240,64W 08) Vm = \$ + m = Vm. + + & & = m < 07 +m.c.DT= P.+ t.9 =TA. staylo P= & - &= P+ $-0 = \frac{300}{5.10^{3}(38,3-15)} = 1716.747/$ E = 20 mph = 20. 26,3.9,8.16=82485 Jeglas LPS= la 85p1=818,0 1. 61.68,0 = 72.2 m = D €301,8501 = 283,545 8 m + 1002= 4,169 J 10) mil=(mitmo)/2 a 100.300 = 2108. 12 a 12= 14,28mls 05= 21/19 - (MITHEN 1/2) = 000-49/89 = 105/13 CON De 27°C -> 327°C = Q, = 10. 0,031.300 = 93 col - 102,43-93= m.5,85 om= 1,619 100 M3 Ca = KAR. A. (100-T) = Kay. A. (T-0) T. Sp. = (T-001) 84,0.5 + - 06-0,06T = 0,00T T88.1=30 00

-0 T-51°C

$$T_{1}-T_{0}=\frac{11}{K_{1}}$$
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$$\frac{1}{100} = \frac{1}{100} = \frac{1}$$

$$+ K_7 = \frac{2_1 + 2_2 + 2_3}{K_1 + K_2 + K_3}$$

$$m = 6.1 = 1.8 \times 619 = 18718$$

$$M = 6.7 = 1.7 \times (0.0 - 92) = 11.8822 = 2.64.7$$

Mos:
$$\phi = \frac{dG}{dx} = KA\Delta T \Rightarrow QALdx = KA\Delta T$$

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Map = ba (NP-ND) = 102 (10-2) 103 = 2002 Wbc = (Pe-Pa)(Vol) + Pa(Va-Vb) = -7505 (ob=1) 0=0W

W-=500-750=-2507

DUOD = Q - MOD = 800 - 500 = 3007

Oca = Wco + Alco = 0-100 = -1003

ΔU06=300 -> ΔUbc = -2005 ΔU00=-100

Qbc= W6c+CD6c= -750-200 =-950]

8-=800-950-100 =-2505