

2. Termov. Zbilna

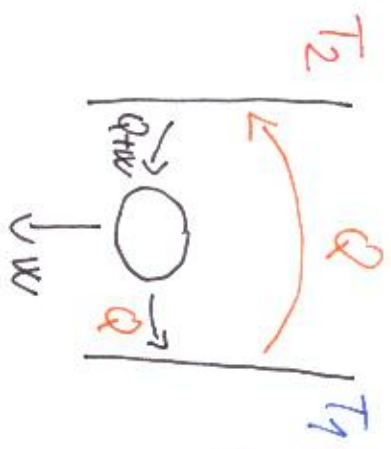
23.11.2020

(1)

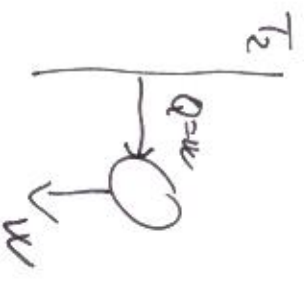
memoria me obratni studeni letos ~~na~~ hujajicima



memoria na kopto premisat na cikli prace
(miharskopicke energje premicnit na mabre)



virjeda



0ZNAHY:

15.12. -> end term pisomba, ee predmish'ion 850-1120

14.12. -> "kontrabizna" predmish'ka (mestri slajdy)

obshy: 14.1. (21.1. 8.2. (11.2. (8 ludi)

hishne opuvne

PERKURUM NOBILE

1. studen -> Maribor, havi havi pricu ber doklonskie energje => post 1.T.2.

2. studen -> -11- , havi havi havi na cikli medmish'i pricu => post 2.T.2
(mie post 1.T.2)

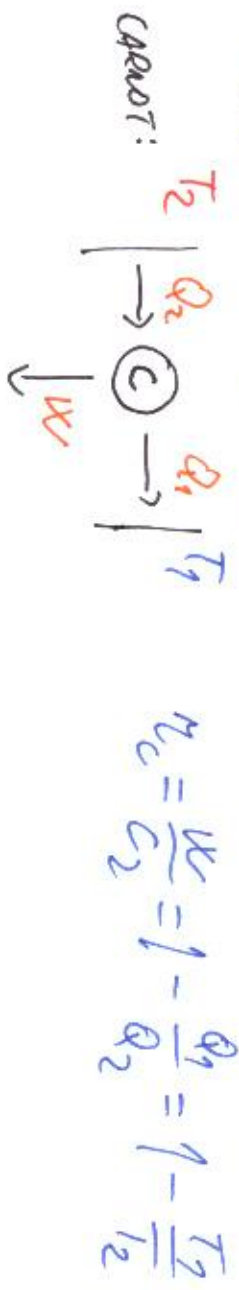
CAPOD

• Carnotne hidrauric: vidiy kopche' shoye puchayice mashi kopstovani T₂ a T₁ majin' kichimant'

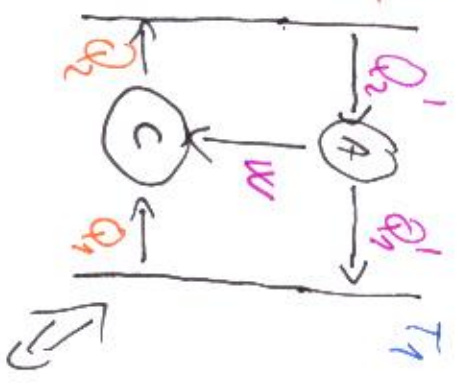
majinac $1 - \frac{T_1}{T_2}$? (kichimant' karnotshchik shoye)

→ al je shoye vobshch' , potom on' poyeme kish' kichimant' , al je karnotshchik' kash' moshin'

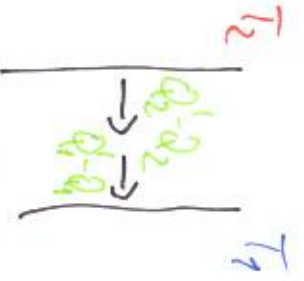
↳ kopyelad' 2.T.Z.



ALTERNATIV: T_2



2.T.Z.



$Q_2' - Q_2 \geq 0$
 $Q_1' - Q_1 \leq 0$

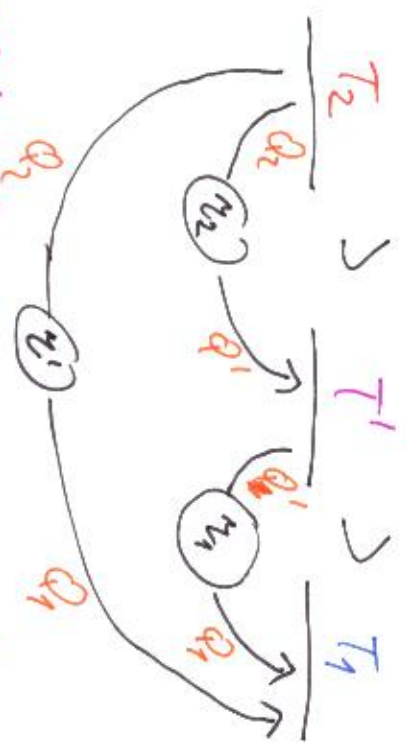
• kichimant' ALT: $\eta_A = \frac{W}{Q_A} = \frac{Q_2' - Q_1'}{Q_2'} = \frac{Q_2 - Q_1}{Q_2} \leq \frac{Q_2 - Q_1}{Q_2}$

$\eta_A \leq \eta_c$

al vsem ALT shchik' shoye' poyem da' $\eta_A \geq \eta_c$

• Normyjsmami dāi lēpota - nēsimamē' struktūras deģa ar dāi pārstāit ar deģinācija

lēpota



ar dāi, tādāi nēsimamē', tādē aplēt dācija a dācija



je struktū' dācie a kaku arē Normāki nēsimamē' arē

• plāsi $z_2 = 1 - \frac{Q_2'}{Q_2}$ ~~$\Rightarrow Q_2' = Q_2(1 - z_2)$~~

$z_1 = 1 - \frac{Q_1'}{Q_1}$ ~~$\Rightarrow Q_1' = Q_1(1 - z_1)$~~

$z_1' = 1 - \frac{Q_1'}{Q_2}$ ~~$\Rightarrow Q_1' = Q_2(1 - z_1')$~~

$1 - z_1' = (1 - z_2)(1 - z_1)$
 $g(z_2, T_2) = g(z_1, T_1) \# g(T_1', T_1)$

• arē arē 1-2 mātā hē' ita funkcions aplēt dācija a dācija \Rightarrow je

↳ arē arē mātā' fāci g (lēpota dācija, lēpota dācija)

$g(x, y) = \frac{f(x)}{f(y)}$

• ubi radii one, \bar{r}_2 $\chi(T_2, T_1) = 1 - \frac{f(T_2)}{f(T_1)}$

~~no~~

mi bi radii dva $\Rightarrow f(T_2) < f(T_1)$

f je klasická fcia

• mizjehnuteladivise moimati $f = \frac{1}{T} \Rightarrow$

$$\chi(T_2, T_1) = 1 - \frac{T_1}{T_2}$$

• koje postovni obr $\left. \frac{\partial S}{\partial E} \right|_V = f(T)$ pre mihketa moimati' au' bora

EVOLUCIA V TERMO DYNAMICE

• v rovnoboznom miasii plati

$$\frac{Q_1}{T_1} = \frac{Q_2}{T_2}$$

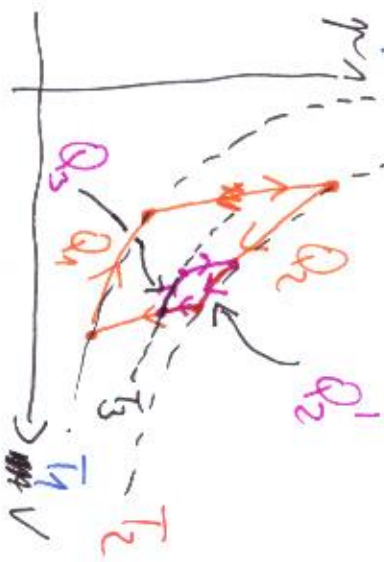
(ubivatel rypoviel) $(Q_1, Q_2 > 0)$

• ~~ok~~ $Q_1 < 0$ (v publikovani ophleiam) \Rightarrow

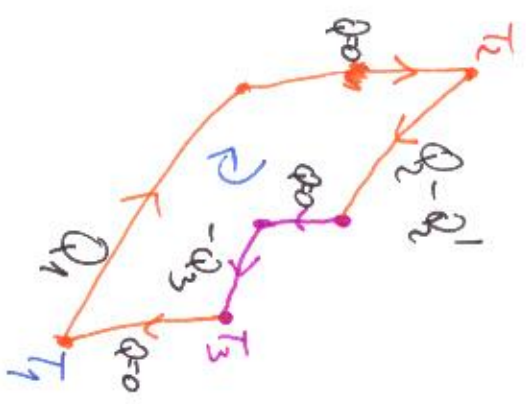
$$\frac{Q_1}{T_1} + \frac{Q_2}{T_2} = 0$$

(miskitacia je spoviedai' $f = \frac{1}{T}$)

pre rovnata = 0, co pre
imoi oblogie?



plati $\frac{Q_2'}{T_2} + \frac{Q_3}{T_3} = 0$



positive

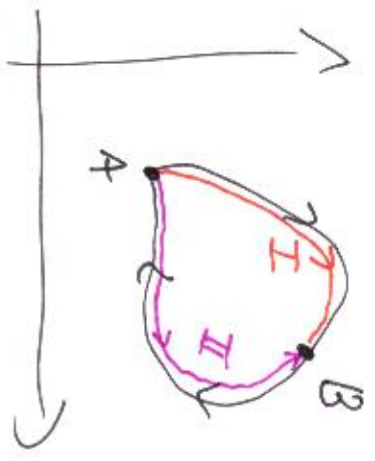
$$\oint \frac{\delta Q}{T} = \frac{Q_2 - Q_2'}{T_2} + \frac{-Q_3}{T_3} + \frac{Q_1}{T_1} = \underbrace{\frac{Q_2}{T_2} + \frac{Q_1}{T_1}}_0 - \underbrace{\frac{Q_2'}{T_2} - \frac{Q_3}{T_3}}_0 = 0$$

revers

• pidiarim / aldo o pidiarim Carnot's dĩa d'itimi Carnot's d'itimi
 memoria $\oint \frac{\delta Q}{T}$ a d'itimi m'itimi?

• A-je p'e d'itimi m'itimi d'itimi

$$\oint \frac{\delta Q}{T} = 0$$



↑↑
 $\int_I \frac{\delta Q}{T} = \int_{II} \frac{\delta Q}{T} \Rightarrow$
 Carnot's d'itimi d'itimi A a B a m'itimi
 od o'itimi m'itimi m'itimi

ENTROPIA

$$S_B \stackrel{A \rightarrow B}{=} S_A + \int_A^B \frac{\delta Q}{T}$$

↑↑
 je p'itimi d'itimi d'itimi!