

· Heat energy flow

a - heat energy flow

Oit 102th - temperature

R - resistência térmica.

· Heat spread - A variation in the material lead to an increase in amount of heat stored.

· Heat Balance equation

$$\frac{\Theta_{m(0)} - \Theta_{m(t)}}{R} = C \frac{d}{dt} \left(\Theta_{m(t)} - \Theta_{m(0)} \right)$$

Liquid - level system

Dai

Capacity Ct = A. of Ht) = dt V(t)

H Paristonce.

Resistance.

law of means conservation:

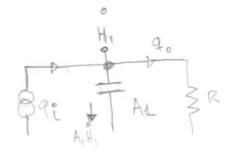
Let Ve) = 9: -90 = 9 9: = 90 + 91 (t)

$$q_i = A \cdot d_i + q_o$$

$$q_o = \frac{1}{R}$$

$$Q_{(6)} = 5A + (6) + Q_{(6)}$$

$$Q_{(6)} = \frac{1}{R}$$



$$\left(\frac{q}{b}\right)^2 = \frac{a^2}{b^2}$$

$$t_{3}^{2} = \frac{t_{p}^{2} 4^{2} t_{3}^{2}}{t_{p}^{2} 4^{2} + 17^{2} t_{3}^{2}}$$

$$E = \sqrt{\frac{1}{1 + \frac{t^2 + t_s^2}{1 + \frac{t^2 + t_s^2}{2}}}}$$

theory. tesis T 15/4/2020 Métado do Lugrar Geométrico de Roujes.

theorems do valor inicial

$$z(\phi) = \lim_{t \to \phi} z(t) = \lim_{s \to \infty} s \times X(s)$$

teorems do valor find

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they explain this in coconfusing uncerner!

F.T = funcció de treus jeven eige F.T.M.A = u u unallace abeutz FTM F = u u u fechacke theory

$$\frac{\sum F_{(t)} = M \alpha_{(t)}}{\sum \alpha sh ??}$$

$$\frac{\sum F_{(s)} = -K \times (s)}{\sum \alpha sh ??}$$

$$f(t) = -B \int_{a}^{b} dx$$

Debnition

$$\begin{cases} f_{(t)} - K x_{(t)} = 0 \\ f_{(t)} - B \hat{z}_{(t)} = 0 \end{cases}$$

$$\frac{2}{2} = \frac{h}{2\pi}$$

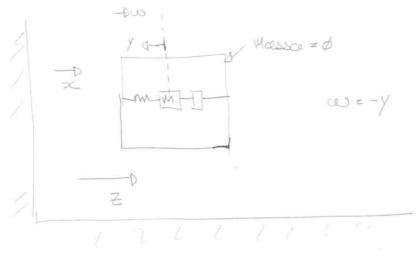
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theory.

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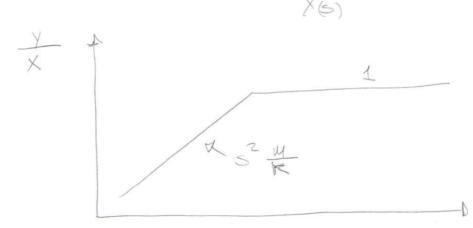


$$X - Y = Z$$

$$- KY - BY + M(X - Y) = 0$$

$$M^{2} = M^{2} + BY + KY$$

$$\frac{YGI}{SGI} = \frac{S^{2}M}{S^{2}M + SB + K}$$



W

JTM

Z

Sexplained Sin slides mælke algorithm!

3 1 Z 3 3 K X 6 6 K O F

S6-K70

0 < K < 6

160 Duz w zty 60°