

Mucha	tronics	•
	ment-l	

George Paul 2021/21006

Egnation for ideal traight line:

y= matc

for 0-100c, m = 5268-0 = 52.68

100 - 20°c

 $m_0 = 100777 - 5268 = 55.09$

C = 241

200 - 300°C,

m = 16\$325-10\$777 = 55.48

300-200

(z-319)

300 - 500

M = 27388 - 16325 = 55.31

500 - 300

CA = -269.5

Straight line la,

$$S = \begin{cases} 52.68x+0 & x \in [0,100] \\ 55.09xx-241 & x \in [100,200] \\ 55.48x-319 & xx \in [200,300] \\ 55.31x-269.5 & x \in [300,500] \end{cases}$$

for the full range ly.,

$$y = (27388 - 0) \pi + 0$$

$$500 - 0$$

$$y = 54.77 \times$$

b) & & at 100°C

0.3	h Doutput
	maximum 0 0.14
	Doutput = 1.35 1.5 0.90
	2.0 0.90
	maximum hysterisis 4.5 1.15
	as fed % = 1.35 x100 6.0 1.21
	(10.2-0) 7.5 1.35
	= 13.24%
	15:212
0.41	a) Resolution = Flor = 5 = 19.53mV
<u> </u>	28 25 8 6
	2 2080
	% fed = 19.53 × 10-3 × 100 = 0.39%
	1/
	S = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =
	b) resolution = fsd = 5 = 76.29 µV
	./
	% fsd = 76.29 x10° x100
	= 15.250 15.258 × 10-4 0/6
	19.250 15.258 × 10 1 70
	2400 -
/,\	
<u>— 1i)</u>	Prange # is 0-10V
	Mying livel = 2.95V
	Prange is 0-10V Prying livel = 2.95V falling livel = 3.05V
	hysteris as = 1 × 100 = 0.1 × 100 = 1%
	% ofsd fsd 10

2 a) Standard conditions are 2000, 100

K = Omar - Omin = 20-4 = 1.6 mA1 larg I mux - & I min 10-0

a = fin = Onin - K. Imin - 4 bary

or condition I

KT = K+KM FRIM 28-4 = 1.6 + Kmx2

Km = 0.4 m Albary VT

Quanto = a + k_I II Mondo $4 = 4 + k_{x} \times 2$ $k_{y} = 0$

Condition II,

Km = K + Km Im 10-0 = 1.6 + 9 kg. Egg 10-0 5 Km

Km = 0

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$$6 = 4 + 5k_{I}$$

 $k_{I} = 0.4 V / 2$

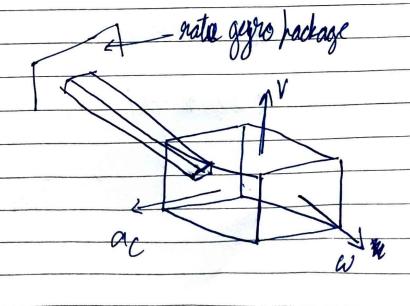
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$$O(I) = (K + KmIm)I + a + K_II_I$$

$$O(5larg) = (1.6 + 0.4 \times 2) \times 5 + 4 \times 0.4 \times 5$$

= 2.4 \times 5 + 4 + 2

0.5



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