

Igourbil

24/09/2019

U:\Documents\Année2019_2020\PuissanceTransmiseRésistance_prof.rw3

R1=100_Ohm -> R1=100 Ohm

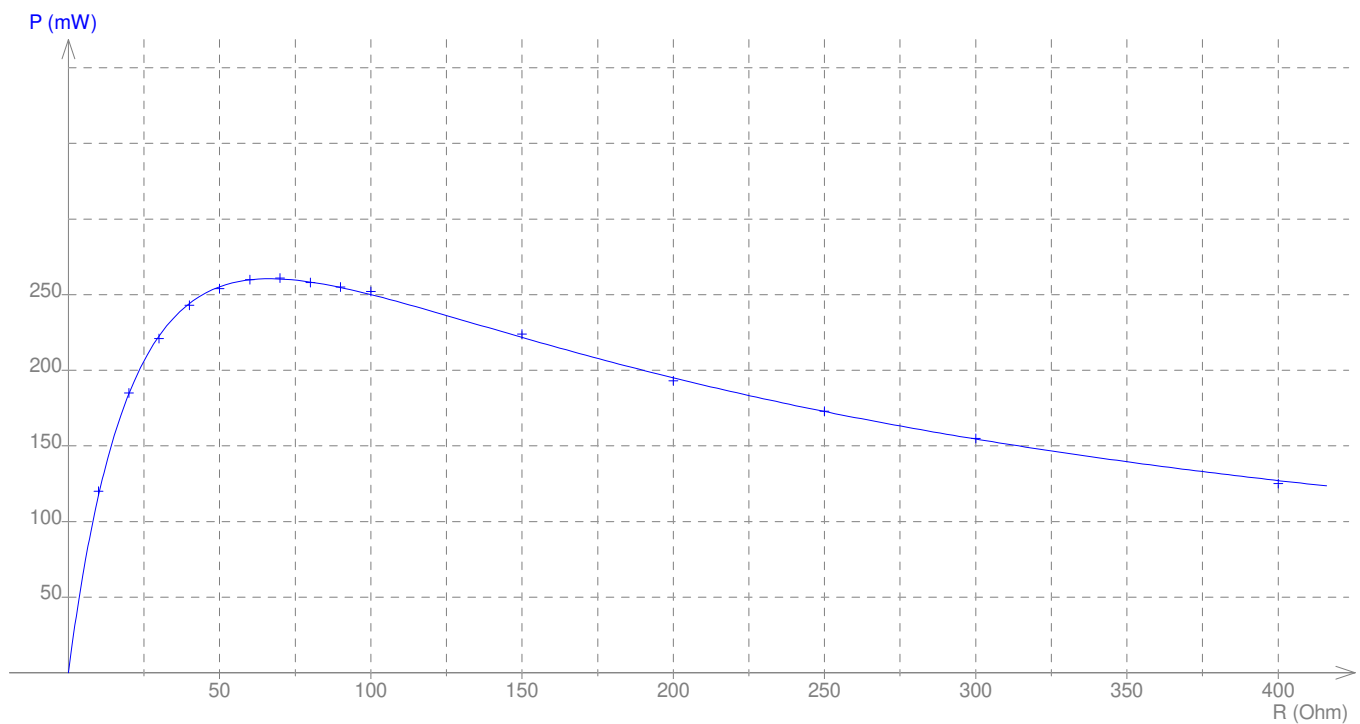
R2=220_Ohm -> R2=220 Ohm

R_{eq}=(R1*R2)/(R1+R2)_Ohm -> R_{eq}=68,75 Ohm

i	R	I	U	P
	Ohm	mA	V	mW
0	10,00	106,8	1,140	120,0
1	20,00	95,10	1,940	185,0
2	30,00	85,50	2,600	221,0
3	40,00	77,70	3,140	243,0
4	50,00	70,80	3,610	254,0
5	60,00	65,50	3,980	260,0
6	70,00	60,90	4,290	261,0
7	80,00	56,60	4,600	258,0
8	90,00	53,00	4,840	255,0
9	100,0	49,70	5,060	252,0
10	150,0	38,40	5,840	224,0
11	200,0	30,80	6,360	193,0
12	250,0	26,40	6,660	173,0
13	300,0	22,70	6,920	155,0
14	400,0	17,90	7,240	125,0
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Modélisation

$P(R)=a \cdot R / (b \cdot R + c \cdot R + d)$



Ecart expérience-modèle

0,65 % sur P(R)

Ecart quad. P=1,645 mW

$a=(57,4 \pm 1,9) \cdot 10^{23}$

$b=(833 \pm 22) \cdot 10^{21}$

$c=(109 \pm 7) \cdot 10^{23}$

$d=3,703722 \text{ ??}$

n°	10 ²³	10 ²¹	10 ²³	
1	57,41	833,2	109,3	3,704

R1	R2	R _{eq}
Ohm	Ohm	Ohm
100,0	220,0	68,75
