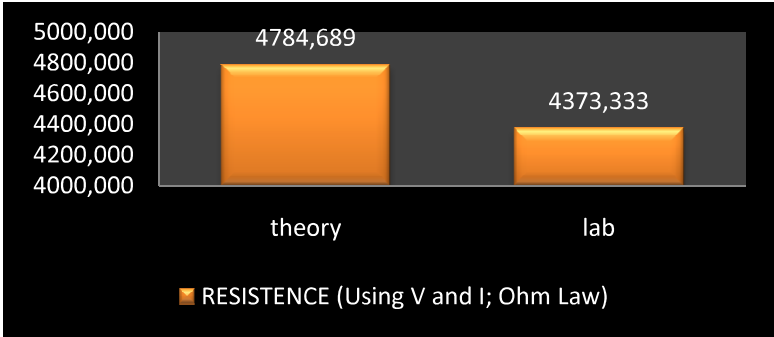


# WHAT IS THE RESISTENCE OF THE WATER? (method01: LAB )

ELECTRIC POTENCIAL; [V]		CURRENT; [mA]	RESISTENCE; [ohm]	CONDUTIVITY; [1/ohm]
Va (positive)	Vb (zero or lower potencial)	I (A: circuit)	R	Sigma
3,28	0	7,50E-04	4373,333	0,00022865853659
	3,28			

RESISTENCE = POTENCIAL ENERGY (V) / CURRENT (i)

Resistance	Value
theory	4784,689
lab	4373,333



INPUT DATA  
FORMULA

CALCULO DA RESISTENCIA = Lei de Ohm

# WHAT IS THE RESISTENCE OF THE WATER? (method02: LAB )

Area (rectangulo)	Largura	Altura	Distancia	Resistance (ohm)	Condutividade (sigma)
10,200	0,11	0,01	0,1	4373,333	4,10E-02

RESISTIVIDADE (roh) = (resistance\*Area) / L

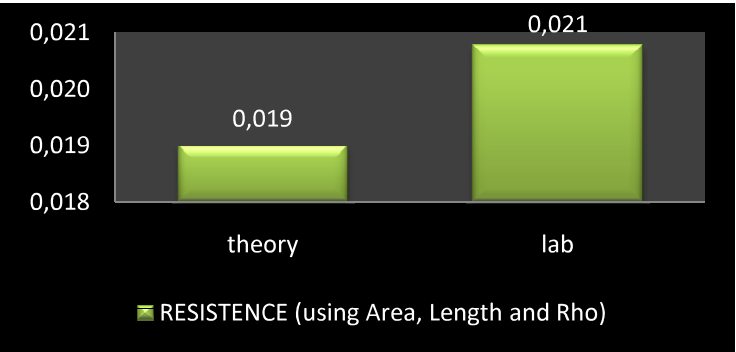
0

48,107

CONDUTIVIDADE	Value
theory	0,019
lab	0,021

(20 graus)

(temperatura ambiente)



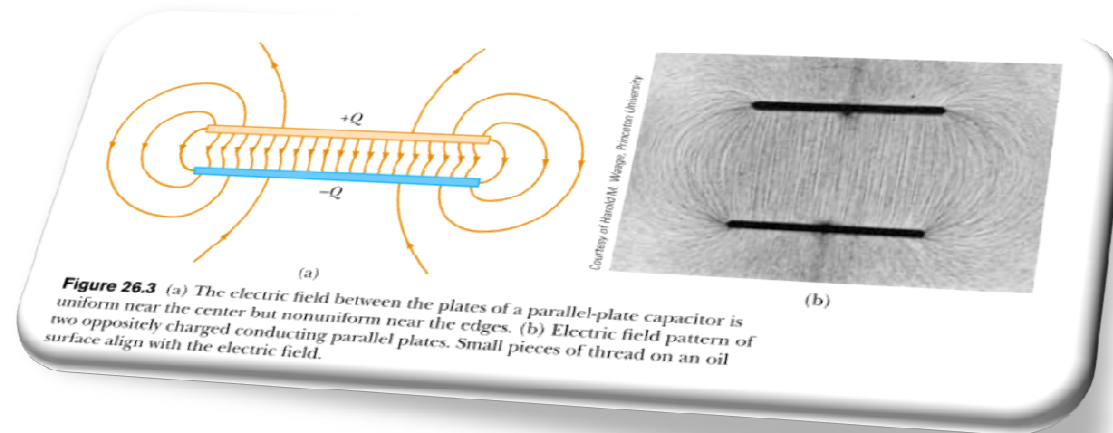
INPUT DATA
FORMULA

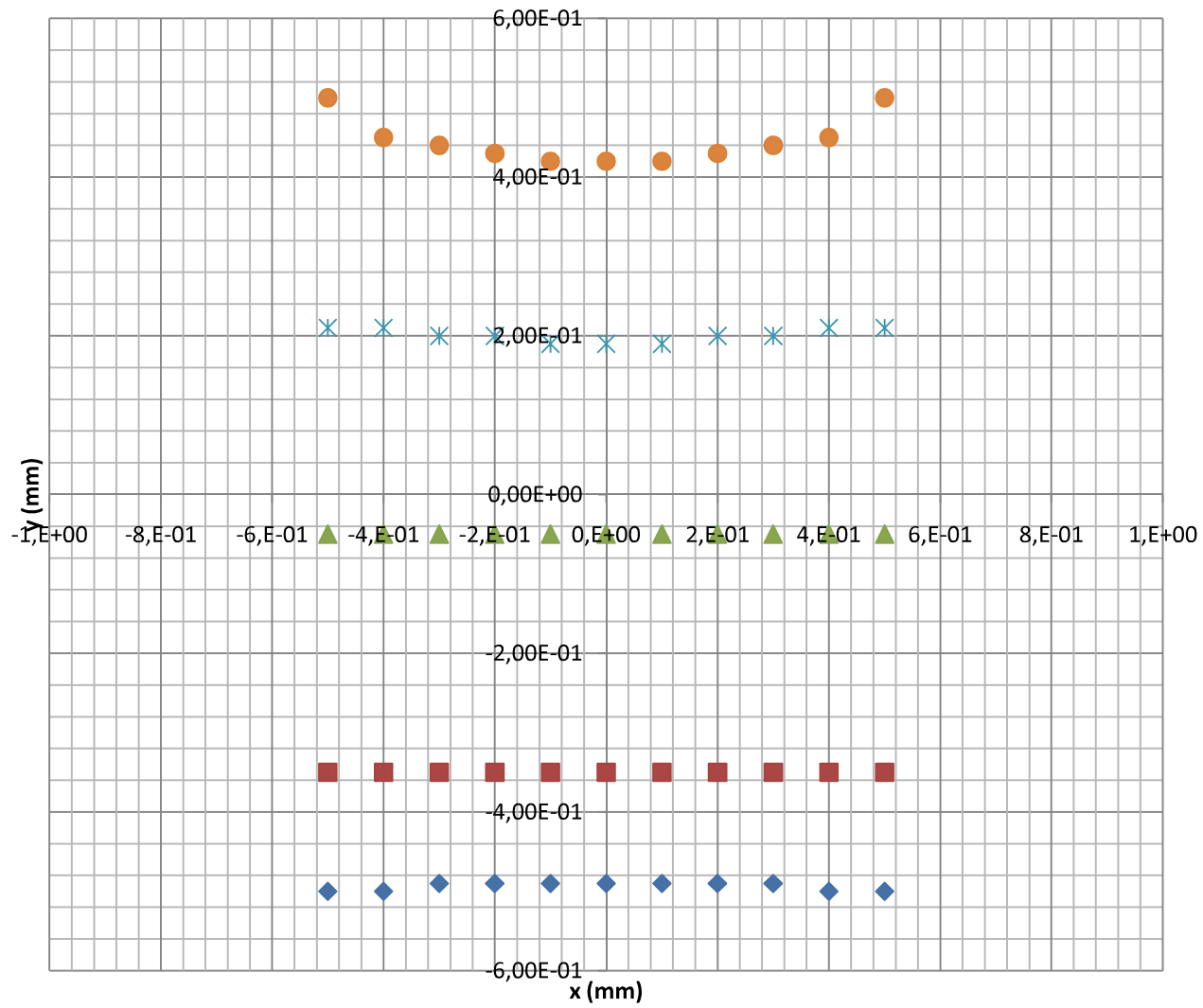
CALCULO DA CONDUTANCIA = usando Resistencia e Resistividade

## PLANOS PARALELOS

Equipotencial: <b>0.8 V</b>		Equipotencial: <b>1.0 V</b>		Equipotencial: <b>1.5 V</b>		Equipotencial: <b>2.0 V</b>		Equipotencial V: <b>2.5 V</b>	
x (mm)	y (mm)	x (mm)	y (mm)	x (mm)	y (mm)	x (mm)	y (mm)	x (mm)	y (mm)
-5,00E-01	-5,00E-01	-5,00E-01	-3,50E-01	-5,00E-01	-5,00E-02	-5,00E-01	2,10E-01	-5,00E-01	5,00E-01
-4,00E-01	-5,00E-01	-4,00E-01	-3,50E-01	-4,00E-01	-5,00E-02	-4,00E-01	2,10E-01	-4,00E-01	4,50E-01
-3,00E-01	-4,90E-01	-3,00E-01	-3,50E-01	-3,00E-01	-5,00E-02	-3,00E-01	2,00E-01	-3,00E-01	4,40E-01
-2,00E-01	-4,90E-01	-2,00E-01	-3,50E-01	-2,00E-01	-5,00E-02	-2,00E-01	2,00E-01	-2,00E-01	4,30E-01
-1,00E-01	-4,90E-01	-1,00E-01	-3,50E-01	-1,00E-01	-5,00E-02	-1,00E-01	1,90E-01	-1,00E-01	4,20E-01
0,00E+00	-4,90E-01	0,00E+00	-3,50E-01	0,00E+00	-5,00E-02	0,00E+00	1,90E-01	0,00E+00	4,20E-01
1,00E-01	-4,90E-01	1,00E-01	-3,50E-01	1,00E-01	-5,00E-02	1,00E-01	1,90E-01	1,00E-01	4,20E-01
2,00E-01	-4,90E-01	2,00E-01	-3,50E-01	2,00E-01	-5,00E-02	2,00E-01	2,00E-01	2,00E-01	4,30E-01
3,00E-01	-4,90E-01	3,00E-01	-3,50E-01	3,00E-01	-5,00E-02	3,00E-01	2,00E-01	3,00E-01	4,40E-01
4,00E-01	-5,00E-01	4,00E-01	-3,50E-01	4,00E-01	-5,00E-02	4,00E-01	2,10E-01	4,00E-01	4,50E-01
5,00E-01	-5,00E-01	5,00E-01	-3,50E-01	5,00E-01	-5,00E-02	5,00E-01	2,10E-01	5,00E-01	5,00E-01

INPUT DATA

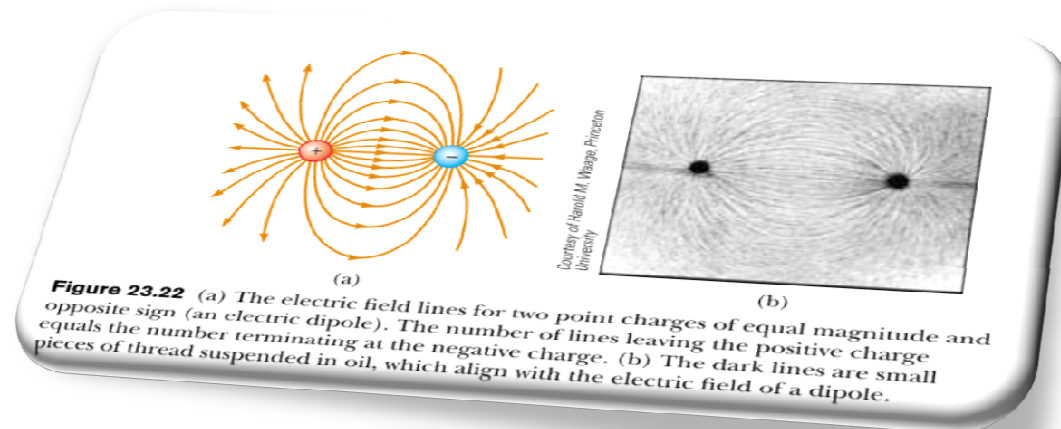


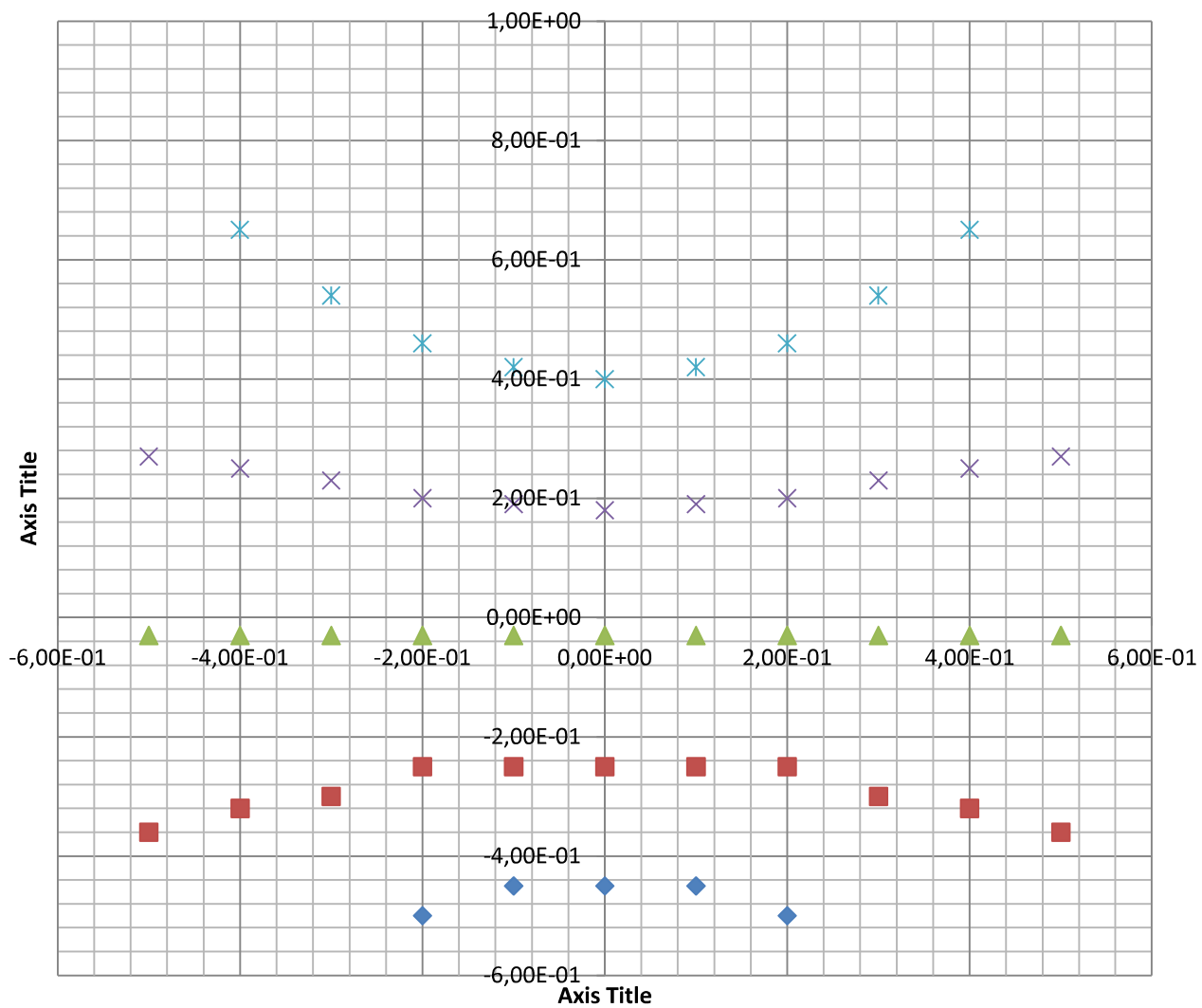


## DOIS CILINDROS

Equipotencial: <b>1,1 V</b>		Equipotencial: <b>1.5 V</b>		Equipotencial: <b>1.9 V</b>		Equipotencial: <b>2.3 V</b>		Equipotencial V: <b>2.8 V</b>	
x (mm)	y (mm)	x (mm)	y (mm)	x (mm)	y (mm)	x (mm)	y (mm)	x (mm)	y (mm)
-5,00E-01		-5,00E-01	-3,60E-01	-5,00E-01	-3,00E-02	-5,00E-01	2,70E-01		8,60E-01
-4,00E-01		-4,00E-01	-3,20E-01	-4,00E-01	-3,00E-02	-4,00E-01	2,50E-01	-4,00E-01	6,50E-01
-3,00E-01		-3,00E-01	-3,00E-01	-3,00E-01	-3,00E-02	-3,00E-01	2,30E-01	-3,00E-01	5,40E-01
-2,00E-01	-5,00E-01	-2,00E-01	-2,50E-01	-2,00E-01	-3,00E-02	-2,00E-01	2,00E-01	-2,00E-01	4,60E-01
-1,00E-01	-4,50E-01	-1,00E-01	-2,50E-01	-1,00E-01	-3,00E-02	-1,00E-01	1,90E-01	-1,00E-01	4,20E-01
0,00E+00	-4,50E-01	0,00E+00	-2,50E-01	0,00E+00	-3,00E-02	0,00E+00	1,80E-01	0,00E+00	4,00E-01
1,00E-01	-4,50E-01	1,00E-01	-2,50E-01	1,00E-01	-3,00E-02	1,00E-01	1,90E-01	1,00E-01	4,20E-01
2,00E-01	-5,00E-01	2,00E-01	-2,50E-01	2,00E-01	-3,00E-02	2,00E-01	2,00E-01	2,00E-01	4,60E-01
3,00E-01		3,00E-01	-3,00E-01	3,00E-01	-3,00E-02	3,00E-01	2,30E-01	3,00E-01	5,40E-01
4,00E-01		4,00E-01	-3,20E-01	4,00E-01	-3,00E-02	4,00E-01	2,50E-01	4,00E-01	6,50E-01
5,00E-01		5,00E-01	-3,60E-01	5,00E-01	-3,00E-02	5,00E-01	2,70E-01		8,60E-01

INPUT DATA





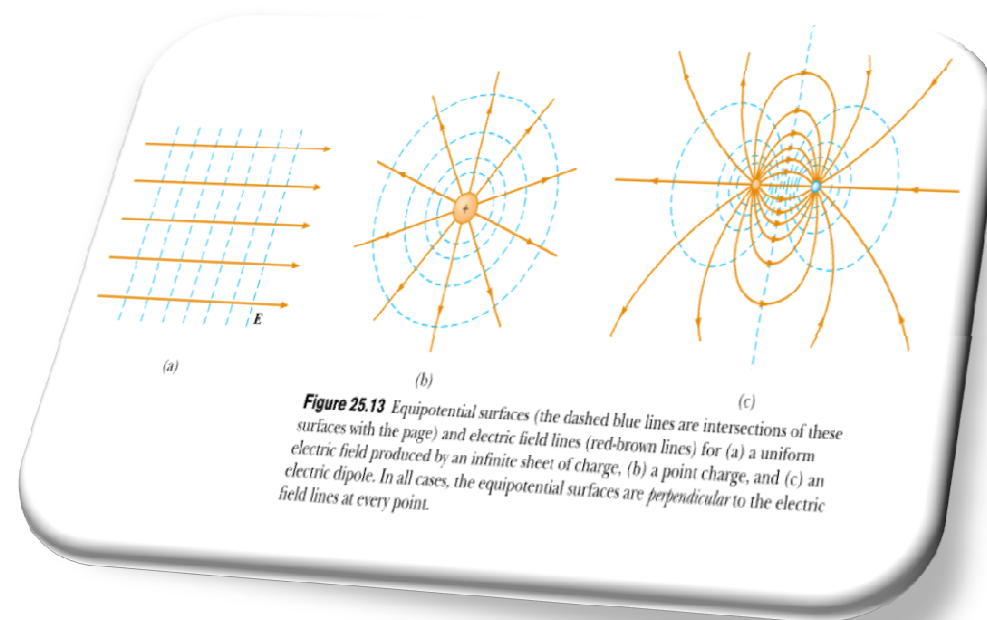
## CILINDRO E UM PLANO

Equipotencial: **1.0 V**

Equipotencial: **2.0 V**

x (mm)	y (mm)	x (mm)	y (mm)
-5,00E-01	2,10E-01	-5,00E-01	6,00E-01
-4,00E-01	2,10E-01	-4,00E-01	5,50E-01
-3,00E-01	2,00E-01	-3,00E-01	4,80E-01
-2,00E-01	2,00E-01	-2,00E-01	4,20E-01
-1,00E-01	1,80E-01	-1,00E-01	3,90E-01
0,00E+00	1,80E-01	0,00E+00	3,90E-01
1,00E-01	1,80E-01	1,00E-01	3,90E-01
2,00E-01	2,00E-01	2,00E-01	4,20E-01
3,00E-01	2,00E-01	3,00E-01	4,80E-01
4,00E-01	2,10E-01	4,00E-01	5,50E-01
5,00E-01	2,10E-01	5,00E-01	6,00E-01

INPUT DATA



Misto entre o efeito de Campo e Potencial Electrico, de um Plano e um Cilindro.

