## 答题纸 (正反面打印) 2021 级物理实验(上)期末大作业-学号 [21/03/82] 姓名 <u>梁炎</u>紀

解: 图1: 70-28mm 图二: 12.519mm

(1) 由設得, D=(20.42+20.34+10.40+20.46+20.40+20.40mm=20.41mm

UR = Uinu = 2.01MM

当 n=b, =1.05

UA = + 1.05x (20.42-20.40)+ (20.34-20.41)+ (20.40-20.40)+ (20.46-20.41)+ (20.40-2

= 2.0435 \$mm

UD= JUJ+UA = 2.048 mm

四、D的表述式为 D=10.410±0.048mm

二、计算题 2

解: (1) 2= (41.10+41.11+41.11) /3=241.23mm h=(12.361 - 0:005)mm = 12.356mm

> $\overline{V}$ ,  $\overline{V} = \frac{\pi d^{2}h}{4} = \frac{3.14 \times 41.23 \times 12.356}{4} \text{ mm}^{3} = 16488.237 \text{ mm}^{3}$ = 1.6488837 1. 65 × 10 44 mm3

(1) V = 71 dth

西边取自然对数

这 Lnv 超与 d与h的偏号:

EVE = \$ (2 Ud) + (Uh)+ 福ENT W, 所从

 $U_{V} = \overline{V} / 4 \left( \frac{U_{a}}{d} \right)^{2} + \left( \frac{U_{h}}{h} \right)^{2}$ 

(3) 由整得。 Un=D·004mm

ZJJ Ud, UB=0.01mm

lnv= ln=+ 2lnd + lnh UA= In = cd+di

 $\frac{\partial \ln V}{\partial d} = \frac{1}{d} + \frac{\partial \ln V}{\partial h} = \frac{1}{h} \left( \ln \frac{3}{3}, \frac{t}{3h} = \frac{1}{3}, \frac{48}{3h} \right) = \int \frac{(41.30 - 41.23) + (41.31 - 41.23)$ 

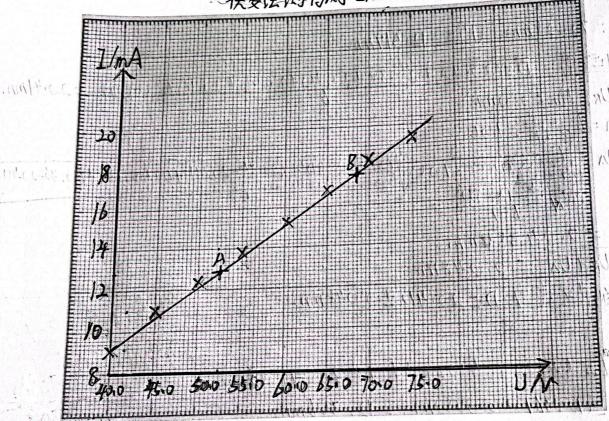
Ry, Ud = JUA+ UB' = 3.076/ 010790mm

Uv= V, 4(-40)+ (Un) = #40.007x 104mm3

V= V ± Uv=(1.650+0.007) x 104mm3

B)10318UL 姓名 共发行

伏安法则告测电阻尺的供费U-1图



解: 本阻值尺. 在图上进取两点AC52.5, 12.8) 标图 C68.5, 17.6)

$$R = \frac{41.5 - 68.5}{12.8 - 17.6} \times 10^{3} A = 3:3 \times 10^{3} \Omega$$

ett U.C. Un= ososonon

Up = 1 diding

(n=7, 1/2) - 12/11/2014 (11) 11:20

- o orthing

motto. 0 1010 = 2 20 120/ 2 10 43

Asha in co 到什么是是有证 inv= 112+2 Ind + Inh

是所给人生人一些一切一下

1 - Nuge . . . 2 = 700

中部一个一个 1112

