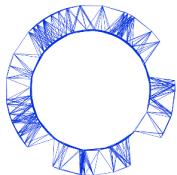


Experiment



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A2-1
English (Official)

English (Official)

Write down the numbers 0 to 9 in the following table:

Part A: Stress-relaxation measurements (1.9 points)

A.1 (0.3 pt)

$$\ell_0 = \pm$$

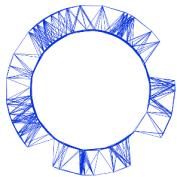
A.2 (0.3 pt)

$$P_0 = \pm$$

A.3 (1 pt)

Some of the columns in this table are to be filled in other tasks.

Experiment



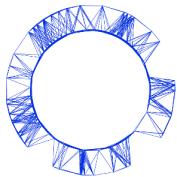
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A2-2

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A.3 (cont.)

Experiment



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A2-3
English (Official)

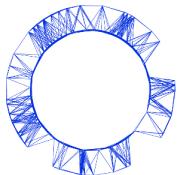
English (Official)

A.3 (cont.)

A.4 (0.3 pt)

$$\ell = \pm$$

Experiment



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A2-4
English (Official)

Part B: Measurement of the stretched thread diameter (1.5 points)

B.1 (0.6 pt)

B.2 (0.3 pt)

$$D = \quad \pm$$

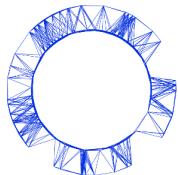
B.3 (0.3 pt)

$$\bar{x} = \quad \pm$$

B.4 (0.3 pt)

$$d = \quad \pm$$

Experiment



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Lisbon, Portugal

A2-5
English (Official)

Part C: Changing to a new thread (0.3 points)

C.1 (0.3 pt)

ℓ'_0

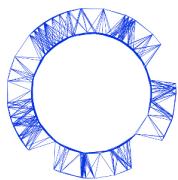
\pm

Part D: Data analysis (5.7 points)

D.1 (0.3 pt)

Fill F in the table introduced in A.3.

Experiment

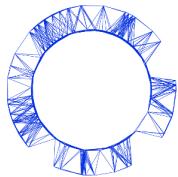


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A2-6
English (Official)

D.2 (0.4 pt)

Experiment



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A2-7
English (Official)

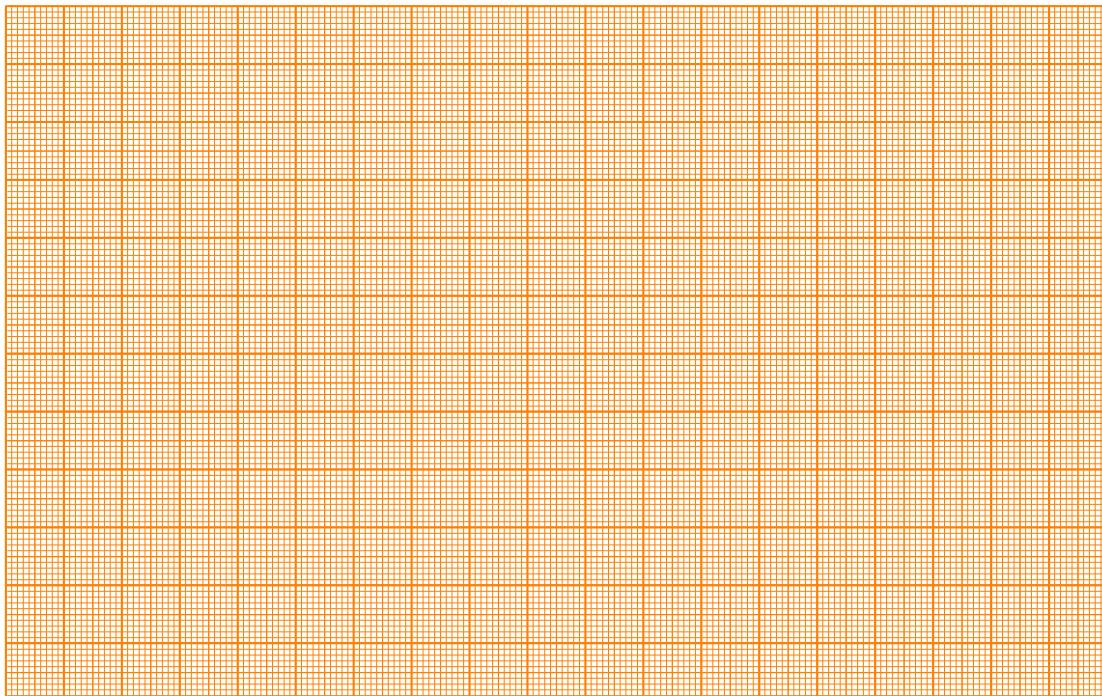
D.3 (0.3 pt)

$$\epsilon = \pm$$

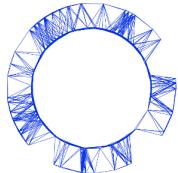
D.4 (0.3 pt)

$$\beta =$$

D.5 (0.4 pt)



Experiment



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A2-8

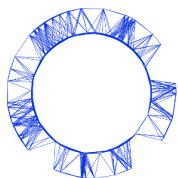
English (Official)

D.6 (0.5 pt)

Fill $\frac{dF}{dt}$ in the table introduced in A.3.

D.7 (0.3 pt)

Experiment



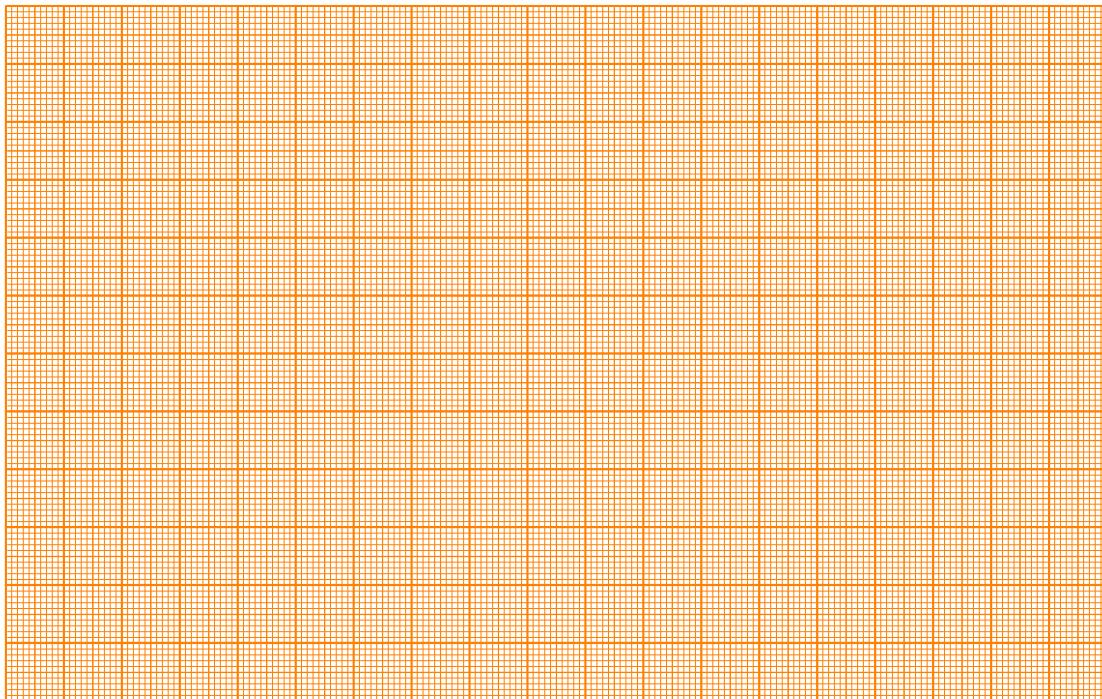
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Lisbon, Portugal

A2-9
English (Official)

D.8 (1.0 pt)

$$E_1 =$$

$$\tau_1 =$$

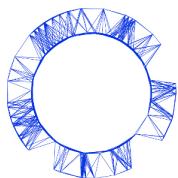


D.9 (0.3 pt)

$$E_0 =$$

D.10 (0.3 pt)
Fill $y(t)$ in the table introduced in A.3.

Experiment



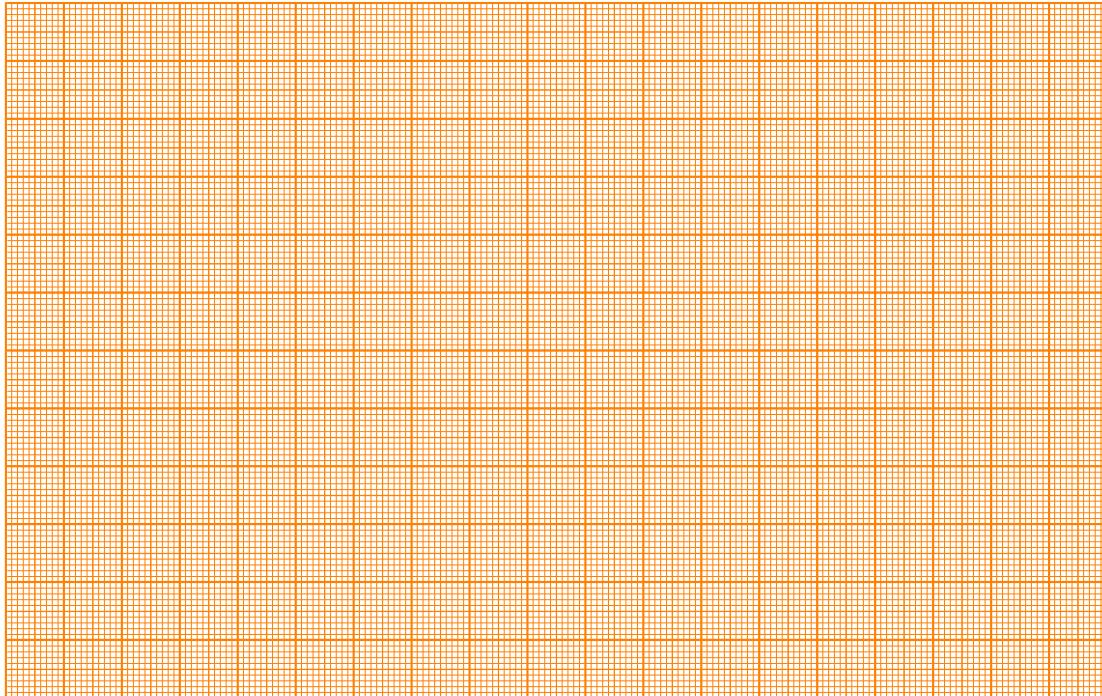
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A2-10
English (Official)

D.11 (1.0 pt)

$$E_2 =$$

$$\tau_2 =$$

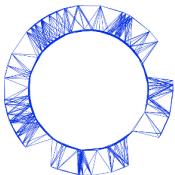


D.12 (0.3 pt)

$$t_i =$$

$$t_f =$$

Experiment



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Lisbon, Portugal

A2-11
English (Official)

D.13 (0.3 pt)

$$\tau_3 =$$

Part E: Measuring E in constant stress conditions (0.6 points)

E.1 (0.6 pt)

$$E = \frac{E - E_0}{E_0} =$$