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EXPERIMENTS ON APPLIED MECHANICS (II) 應用力學實驗(二)

Part A. Dynamics

- A1*. Gyroscopic motion of a rigid body
- A2*. Modal testing
- A3. Vibration of coupled oscillators
- A4. Calibration of displacement sensors

Part B. Mechanics of Materials

- B1*. Uniaxial tensile test
- B2*. Torsion test
- B3. Residual stress measurement
- B4. Acoustoelastic effects in solids
- B5. Stress analysis by photoelasticity

Part C. Fluid Mechanics

- C1*. Drag on a circular cylinder
- C2*. Air-Jet measurement
- C3. Thermal anemometry
- C4. Measurement of LED temperature and thermal conductivity

Part D. Nano-Biomechanics

- D1*. Culture of bacterial cells : media preparation, bacterial isolation, incubation and stocks (細菌培養-培養基製備，單一菌株分離，培養及保存)
- D2*. Mass diffusion in a microchannel (微流體之擴散作用)
- D3. Passive mixing in a microchannel (被動式混合於微流道中之特性探討)