VIII. Dynamic analysis

- A. Force and stress
 - a) Units of force
 - b) Units of stress
- B. Stress on a plane
 - a) Normal stress
 - b) Shear stress
- C. State of stress at a point
 - a) Hydrostatic and Lithostatic stress
 - b) Non-hydrostatic and differential stress
 - c) Stress axes
 - d) Effective stress
- D. Stress-strain relationships
 - a) Elastic
 - b) Brittle
 - c) Plastic
 - d) Viscous
 - e) Experimental vs. geological strain rates

IX. Joints

- A. Character and importance of joints
- B. Features of joints

Orientation and organization Features of joint surfaces: Plume structure Joint-filling materials: veins

C. Typical occurrence and origin of joints

Primary joints in igneous rocks`
Joints around Intrusions
Joints associated with erosion, exhumation
Joints related to faults
Joints related to regional folding