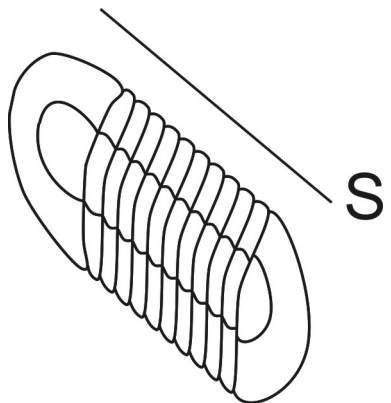


Second mid-term test, sample questions

Answer all the questions. You are encouraged to illustrate your answers with clearly labelled diagrams.
Time allowed: 45 minutes

- 1 Explain the difference between the following pairs:
 - a Strain and stress
 - b Homogeneous and heterogeneous strain
 - c Longitudinal strain and shear strain
 - d Infinitesimal strain and finite strain (40%)

- 2 On the diagram a second-year student has drawn line S and called it a strain axis. Explain why the student must be wrong. (10%)



- 3 Draw a diagram to show how a coaxial deformation might produce folds and boudins in the same rock (20)

- 4 Explain how a rollover anticline forms adjacent to a normal fault in a rift setting (15%)

- 5 Explain briefly why the cross-section below fails to balance. (15%)

