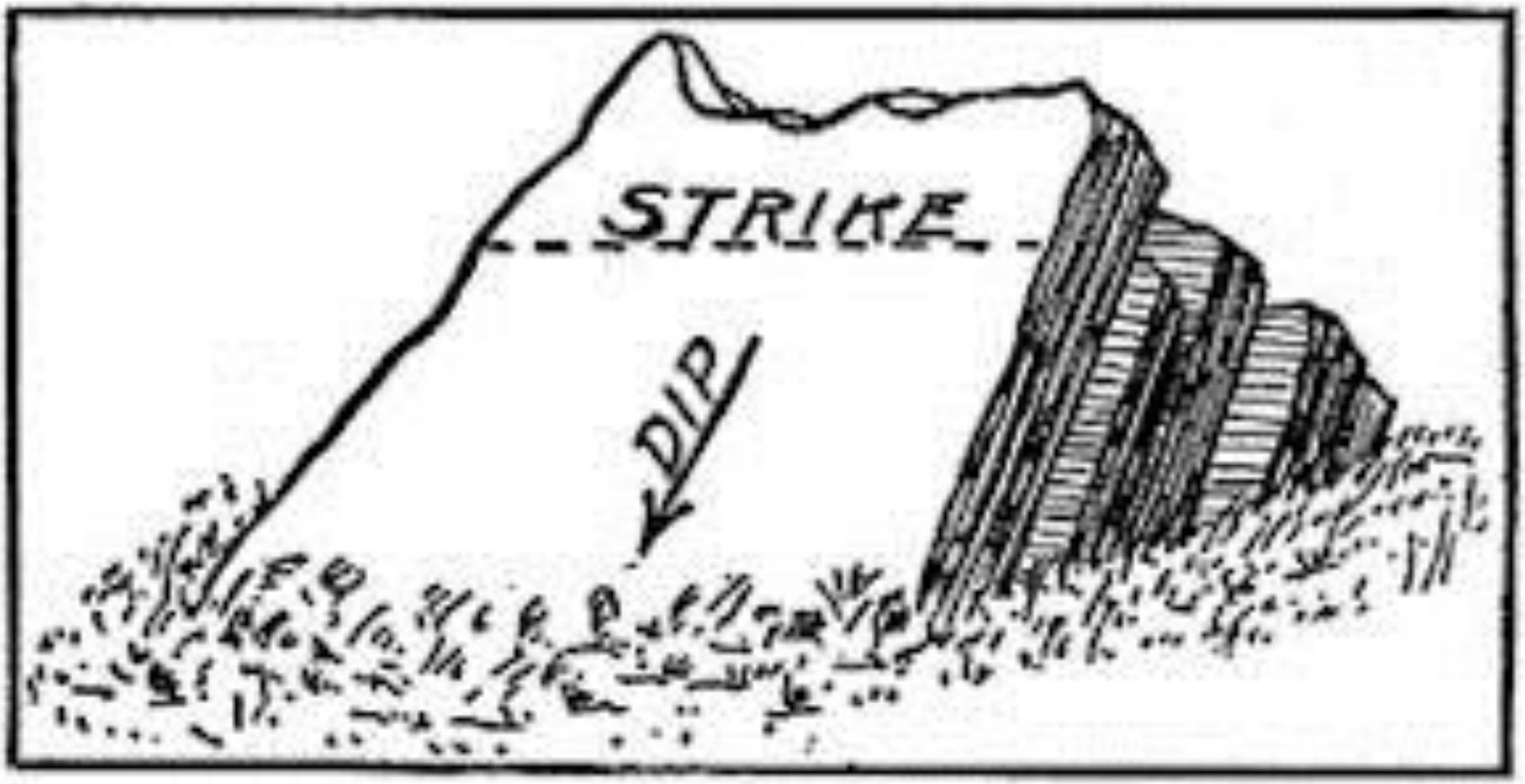
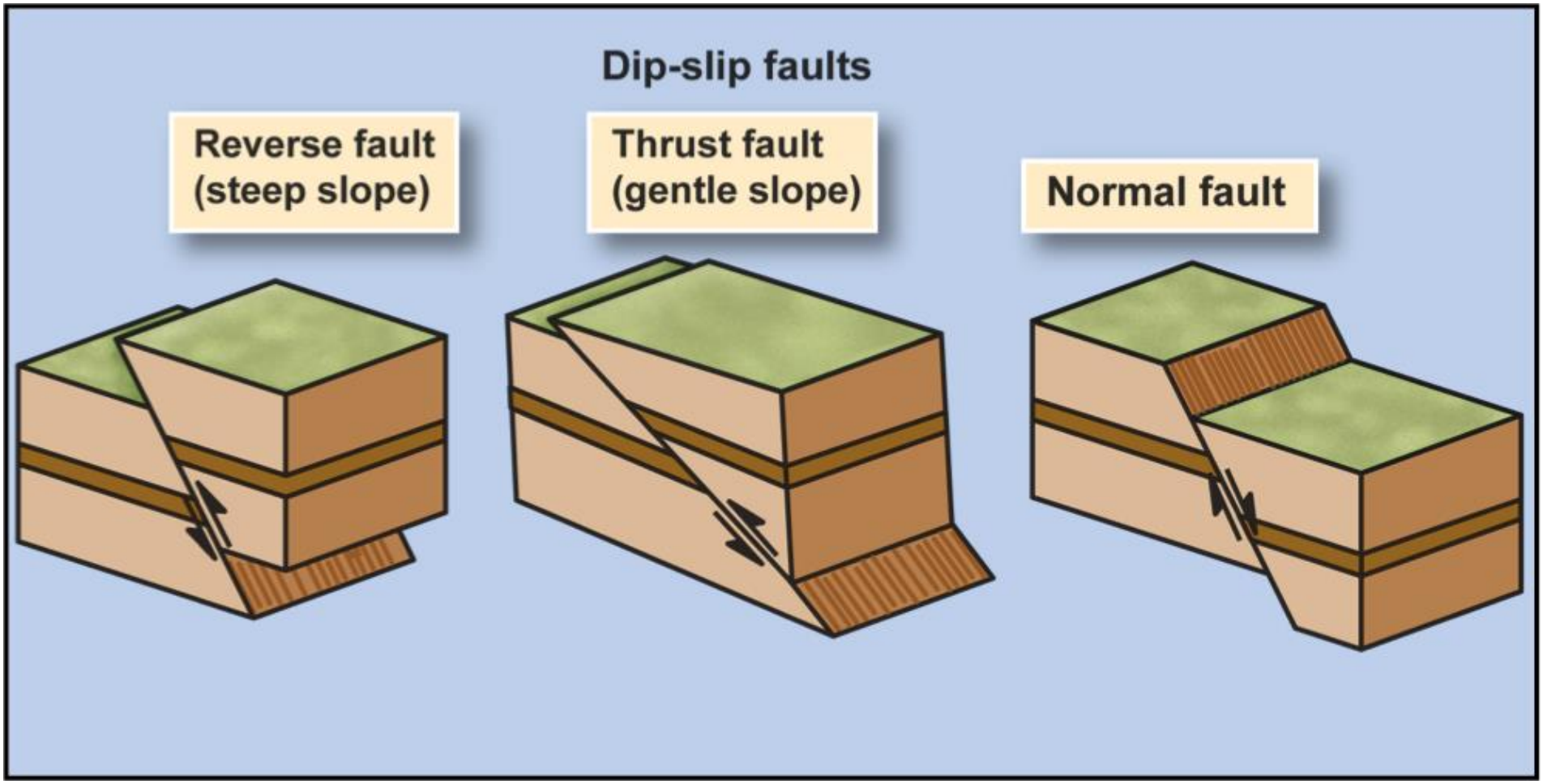
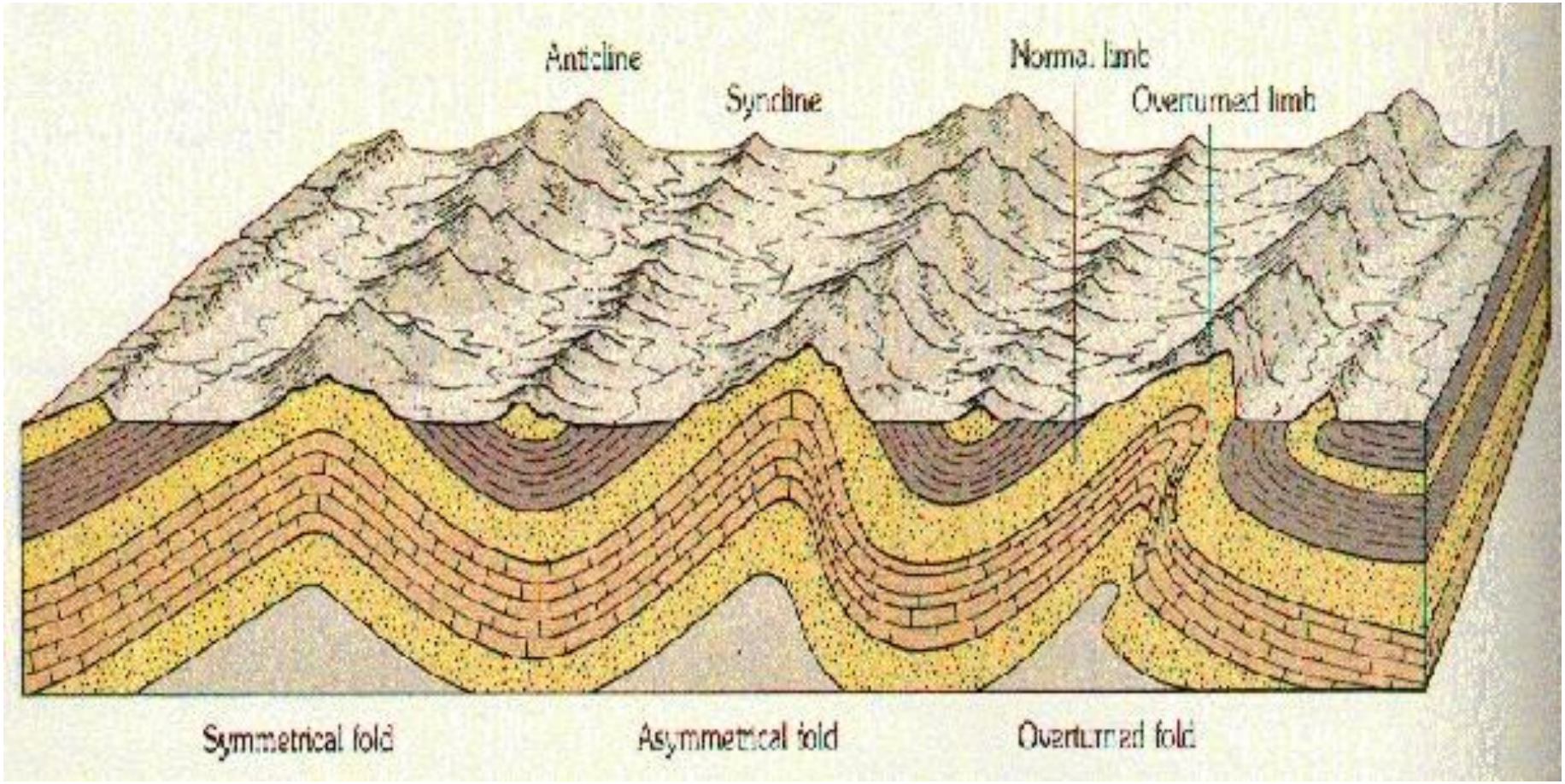
Please take out Structural Geo. Lab

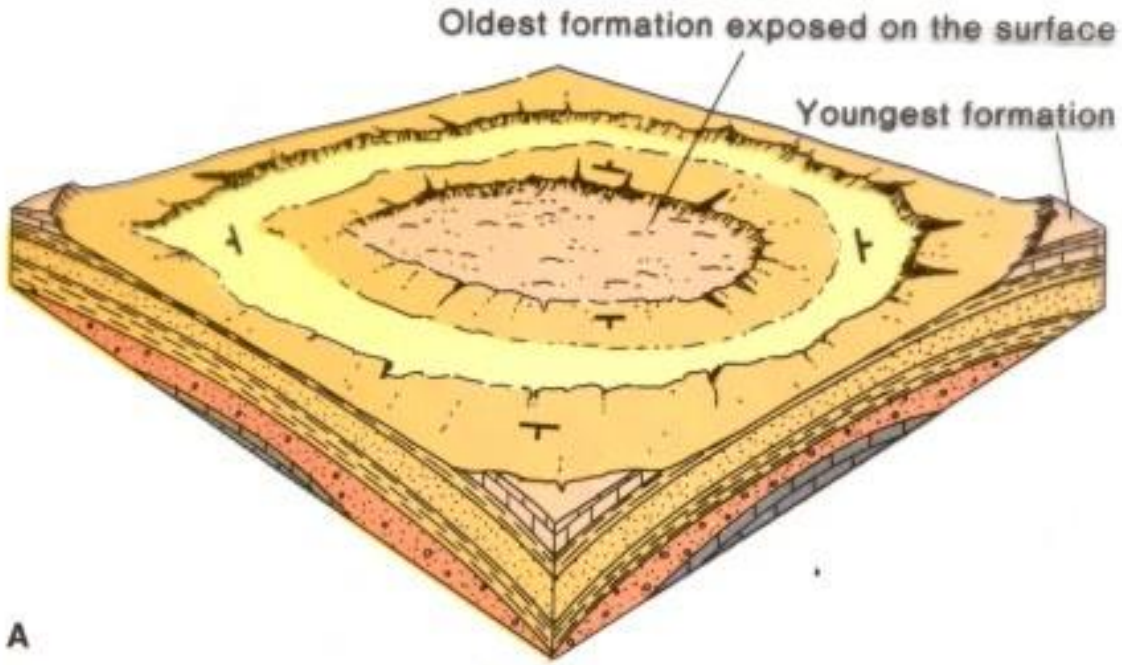


Please take out Structural Geo. Lab

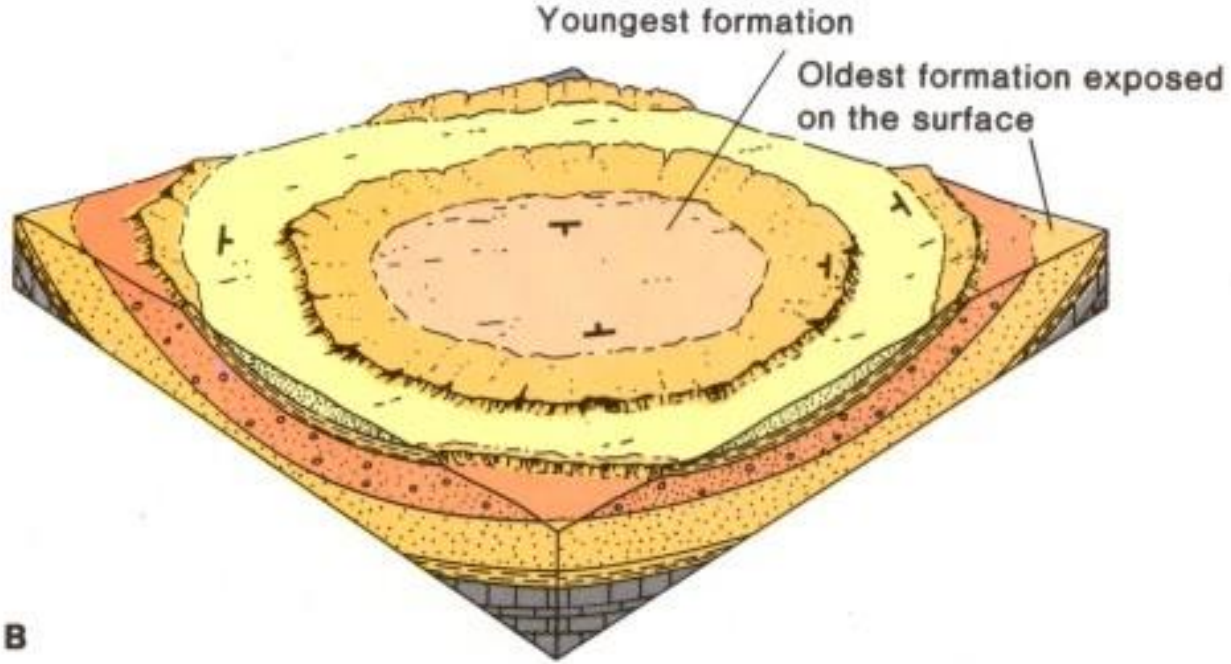


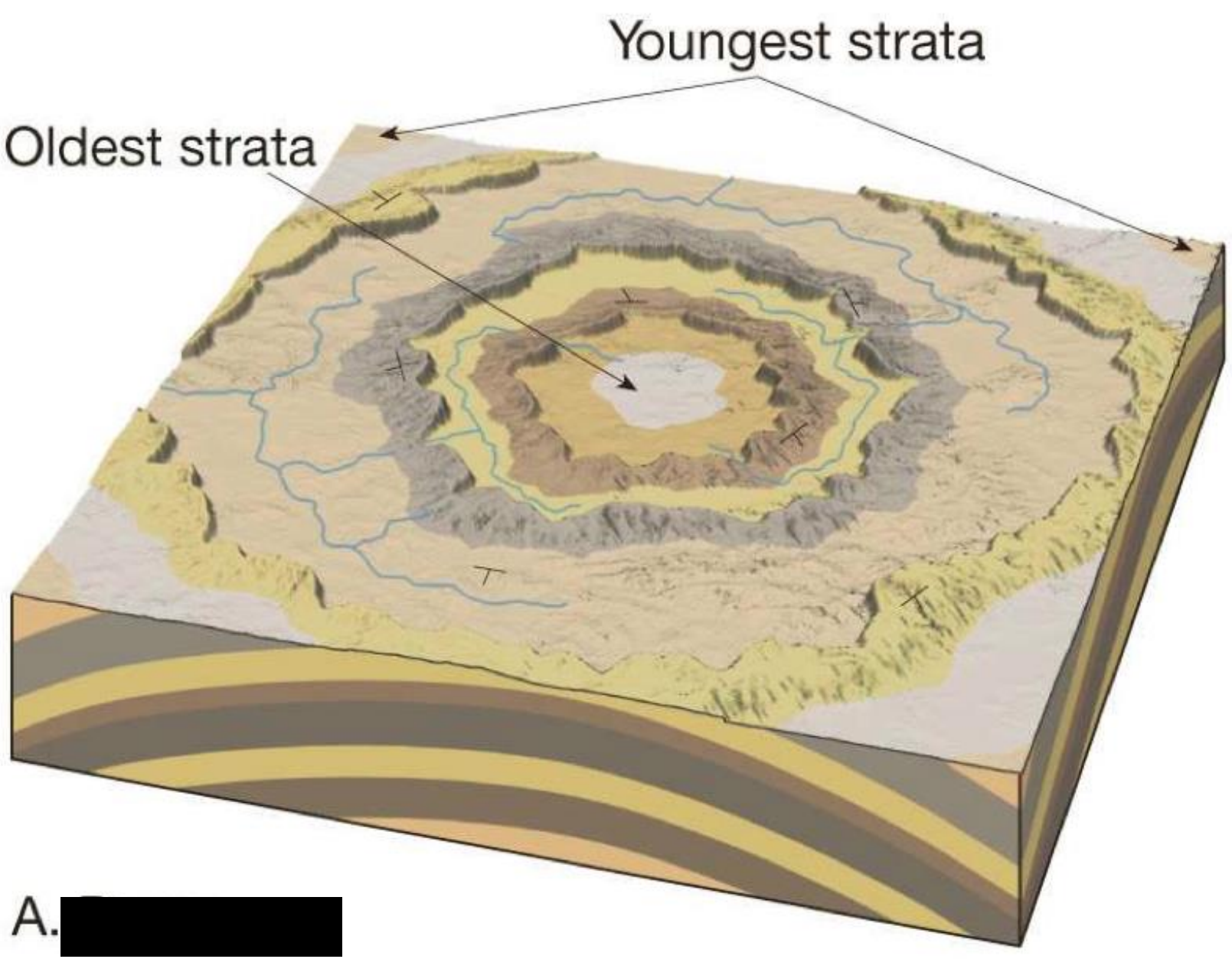

Anticline
Syncline
Norma. limb
Overturned limb
Symmetrical fold
Asymmetrical fold
Overturned fold

Structural Dome

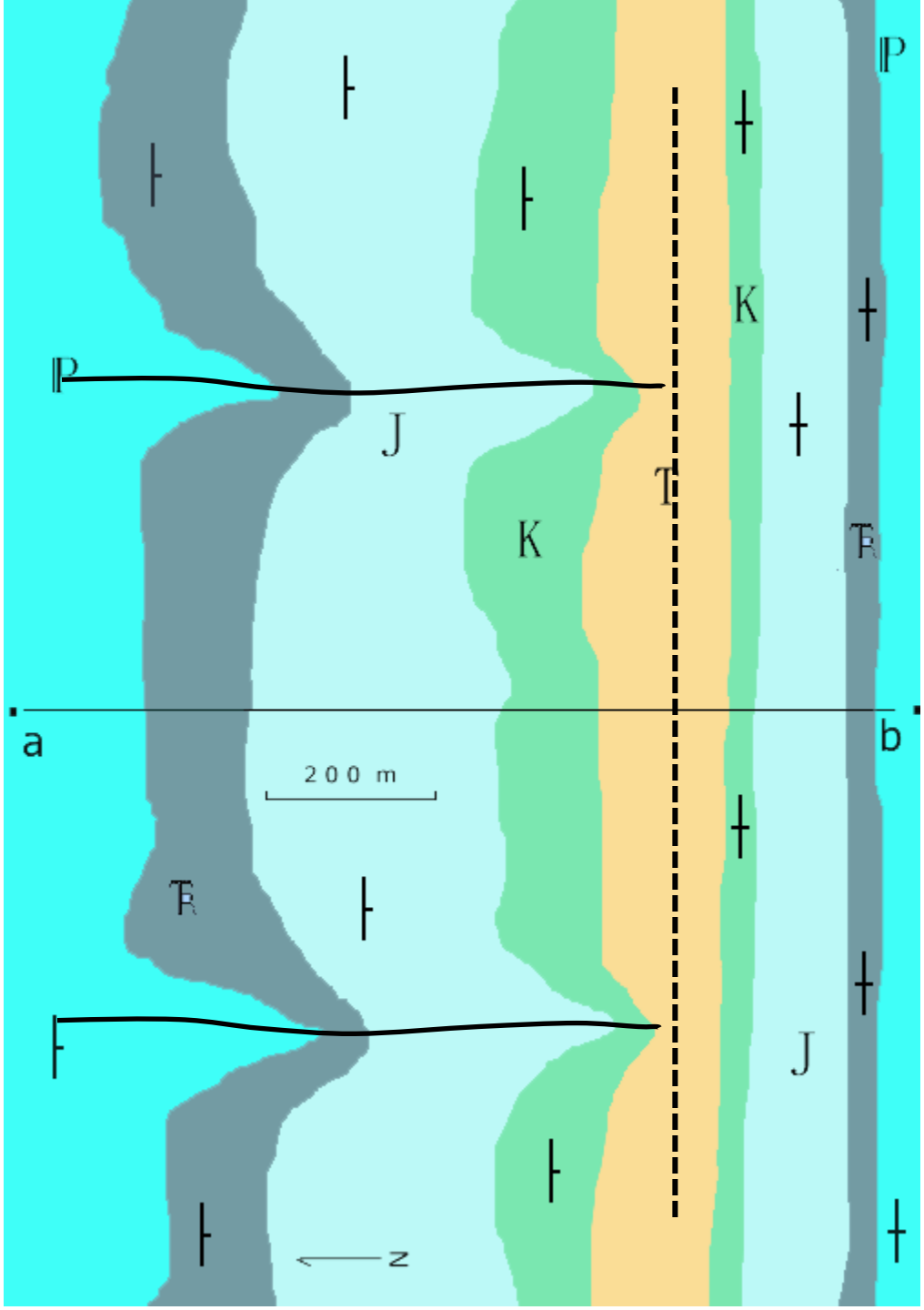


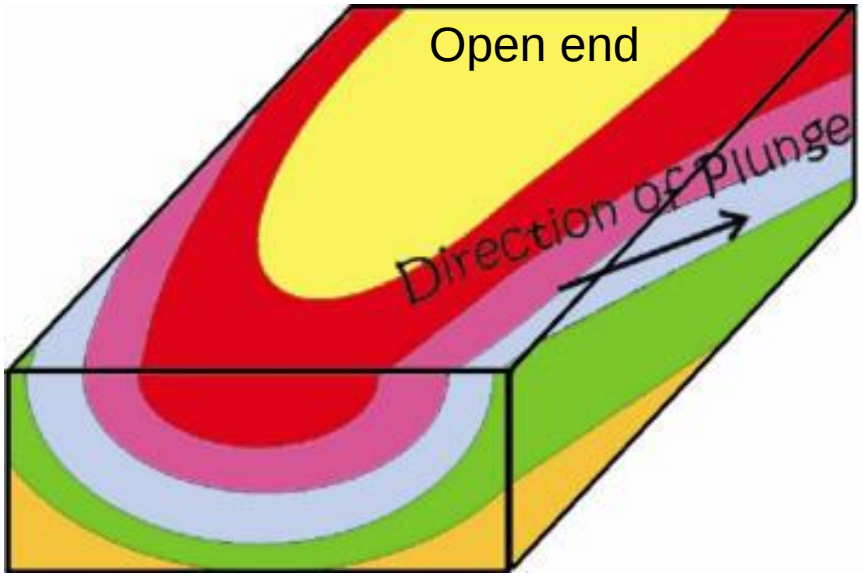
Structural Basin

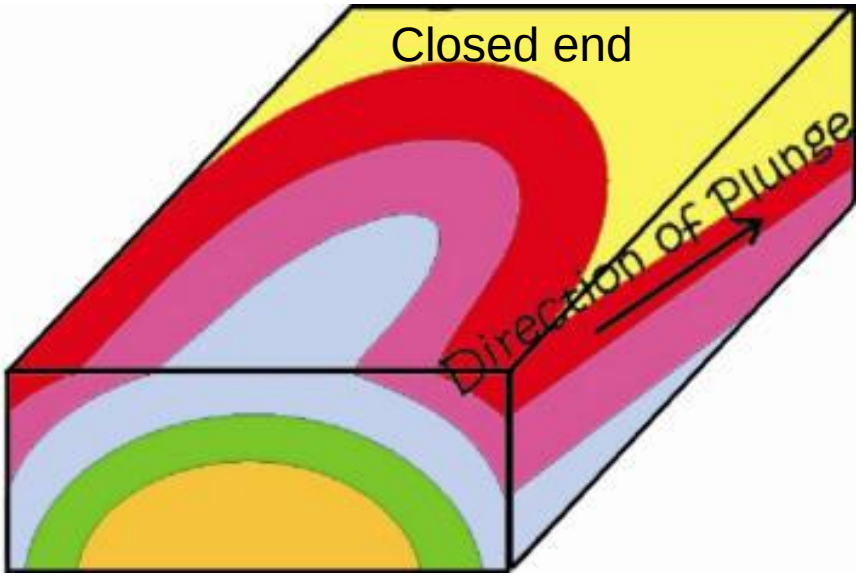




A. [redacted]

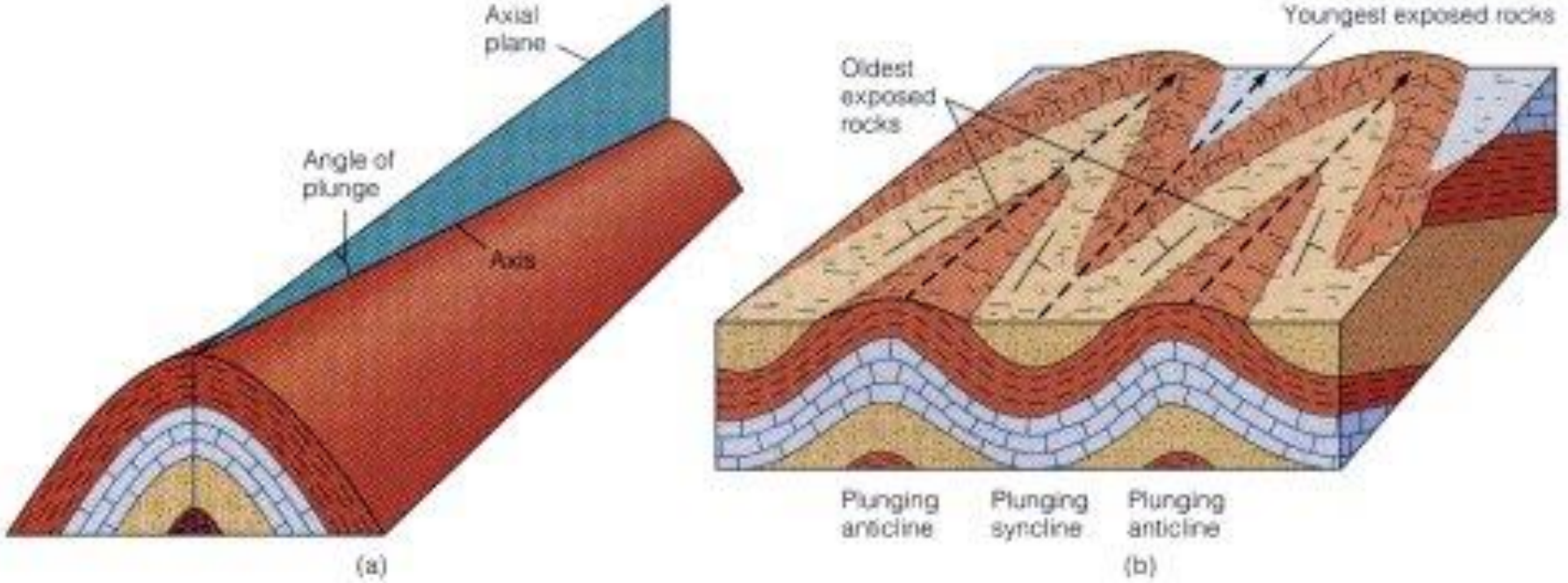

P
K
P
J
T
K
T
a
b
200 m
T
J
z

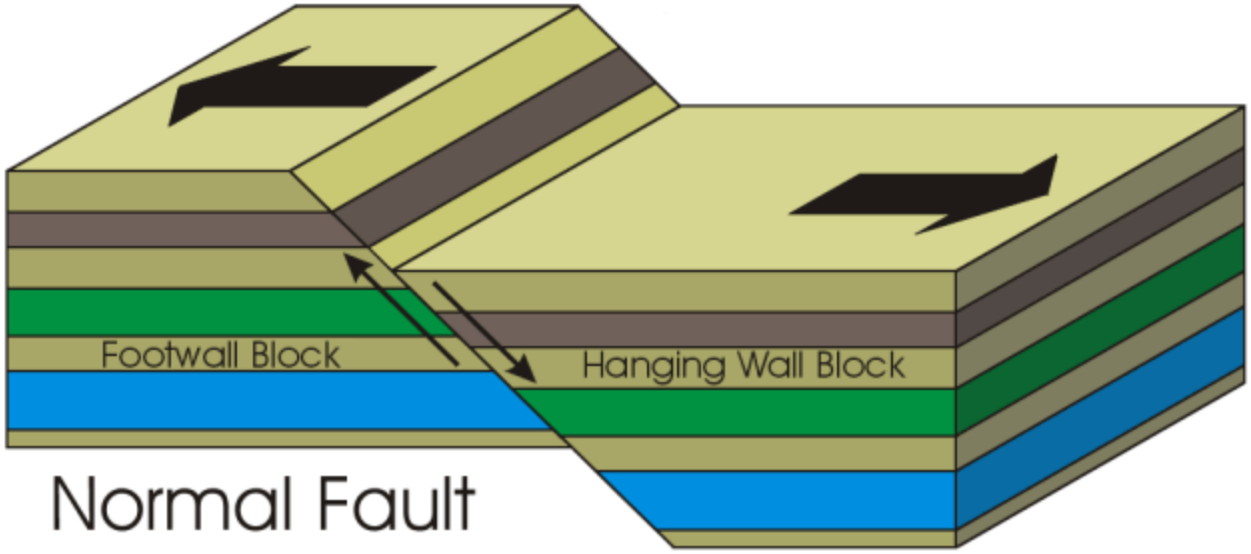




Plunging Syncline
(open end of fold in direction of pluge).

Plunging Anticline
(closed end of fold in direction of pluge).


Axial plane
Angle of plunge
Axis
(a)
Youngest exposed rocks
Oldest exposed rocks
Plunging anticline
Plunging syncline
Plunging anticline
(b)



Normal Fault

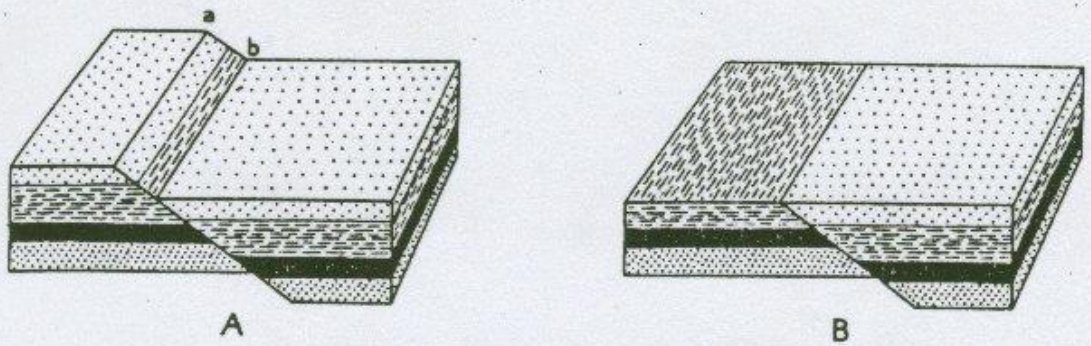


Fig. 8-7. Apparent movement in a vertical section equals the net slip. (A) Before erosion; *ab* is the net slip, which in this case equals the dip slip. (B) After erosion of top of footwall block.

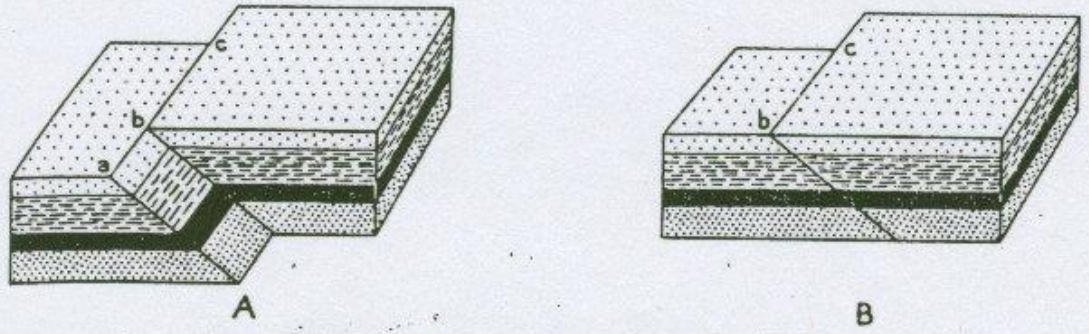
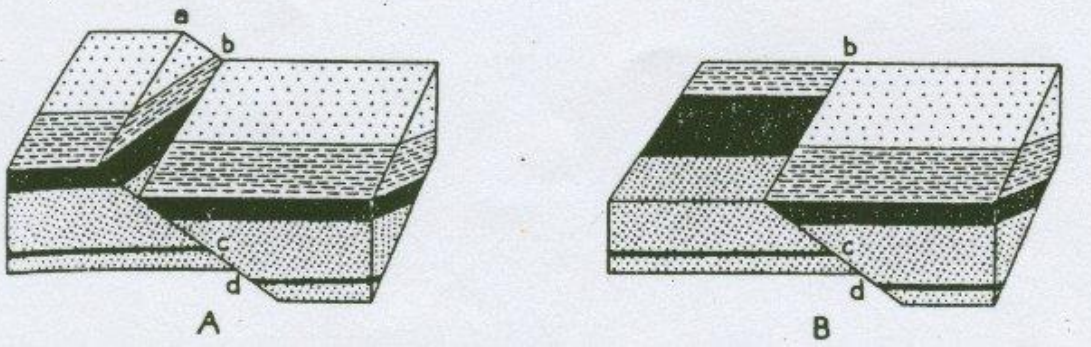


Fig. 8-8. Apparent movement in a vertical section is zero. (A) *ab* is the net slip, which in this case equals the strike slip. (B) After removal of front of footwall block.



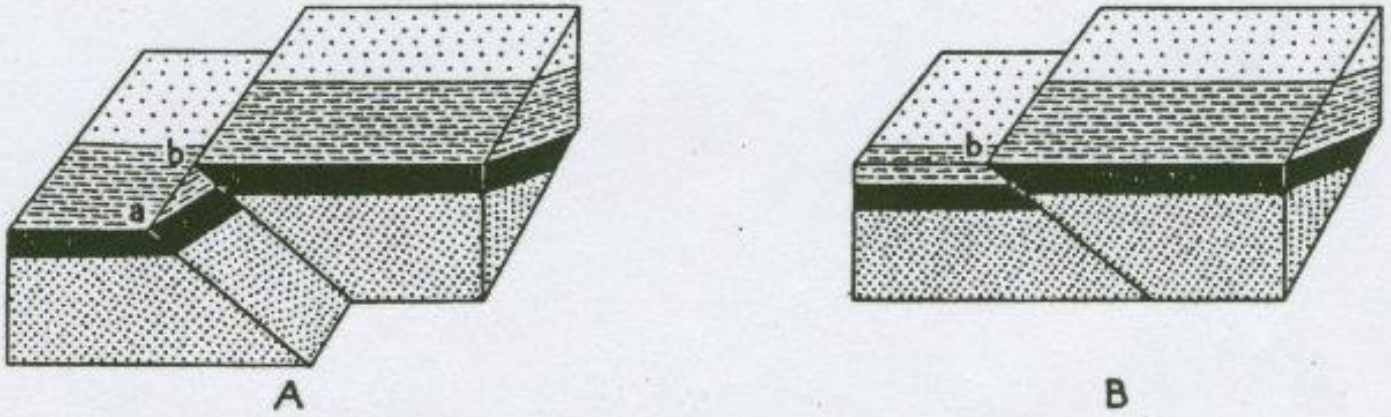


Fig. 8-10. Apparent movement in a vertical section gives the erroneous impression that the hanging wall has gone up. (A) *ab* is the net slip, which in this case equals the strike slip. (B) After removal of front of footwall block. A left separation.

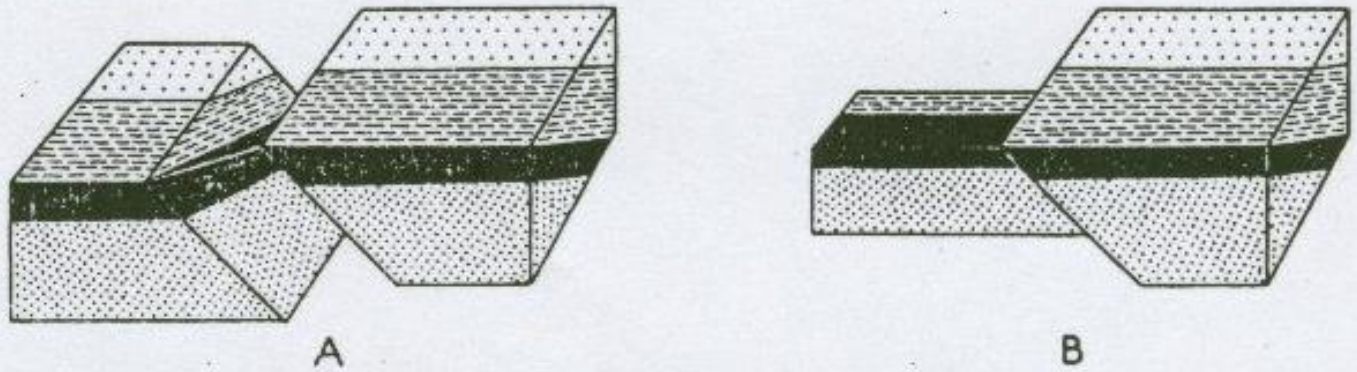
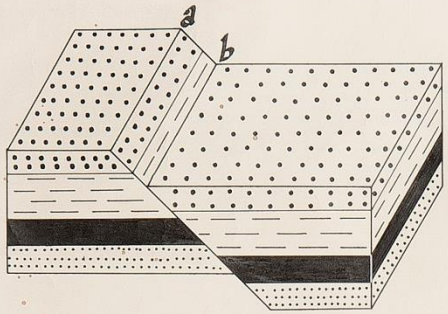
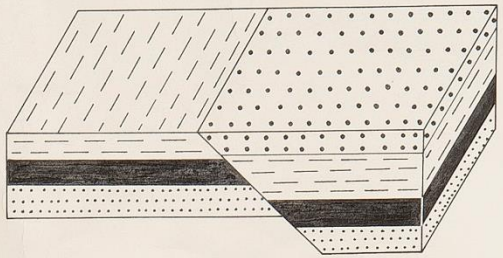


Fig. 8-11. Apparent movement in vertical section is less than net slip. (A) *n* is the net slip. (B) After removal of top of footwall block.



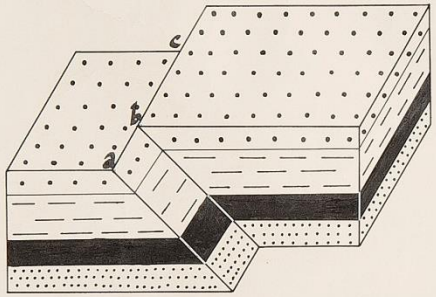
1

Before erosion
ab = net slip = dip slip



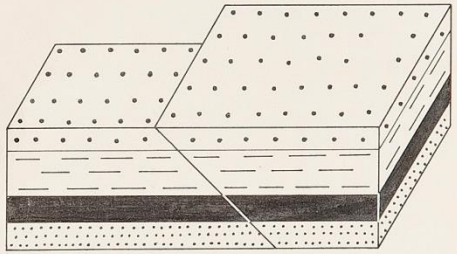
1A

After erosion of top
of footwall block



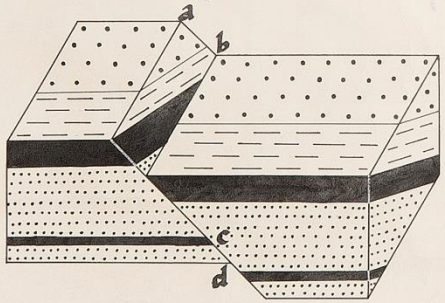
2

ab = net slip = strike slip



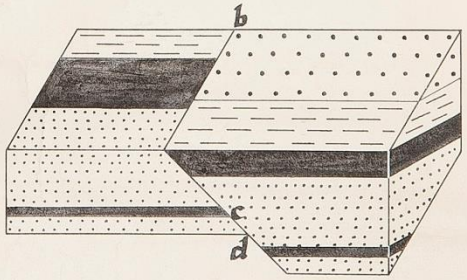
2A

After removal of front
of footwall block



3

ab=cd= net slip = dipslip

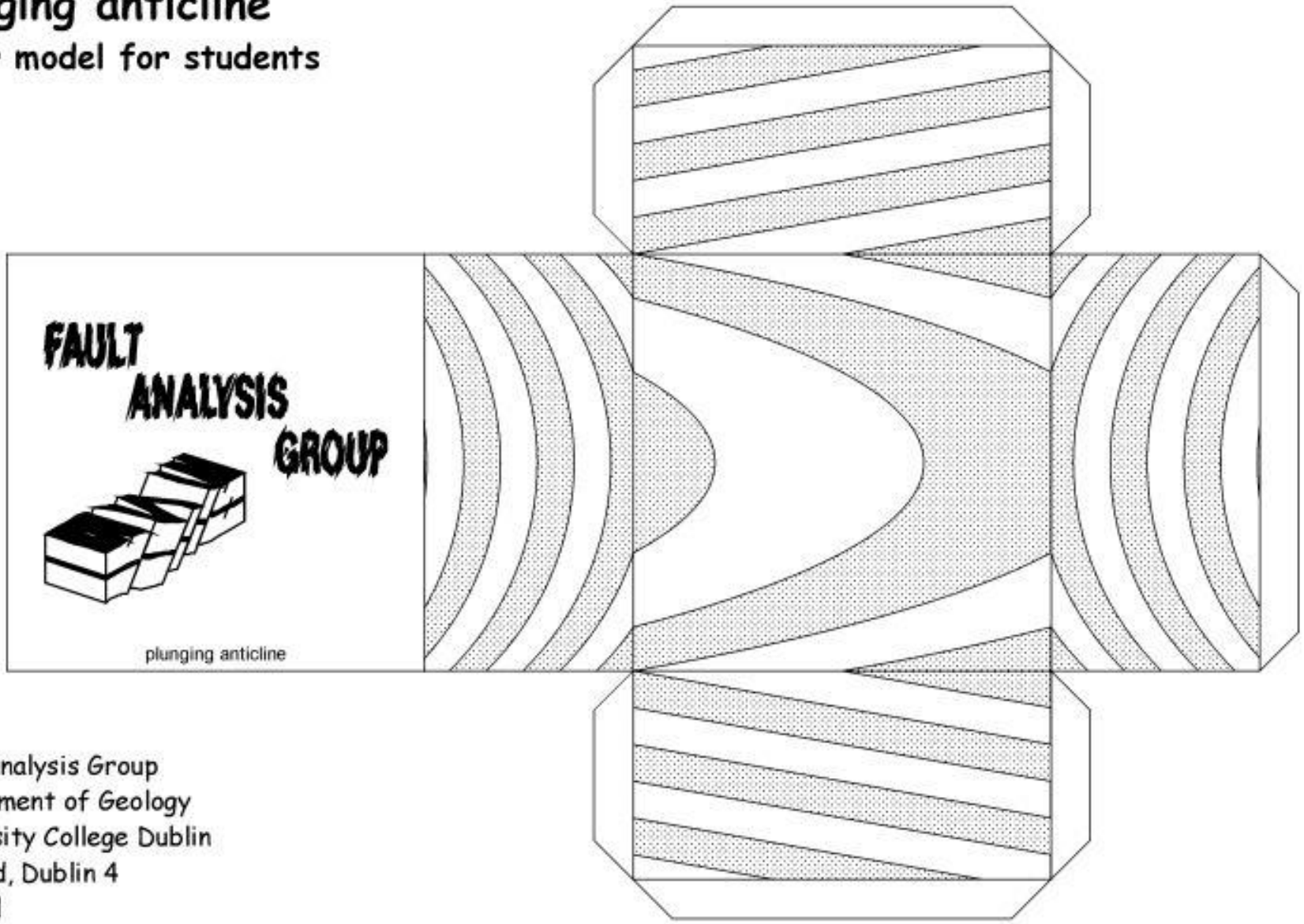


3A

After erosion of top
of footwall block

Plunging anticline

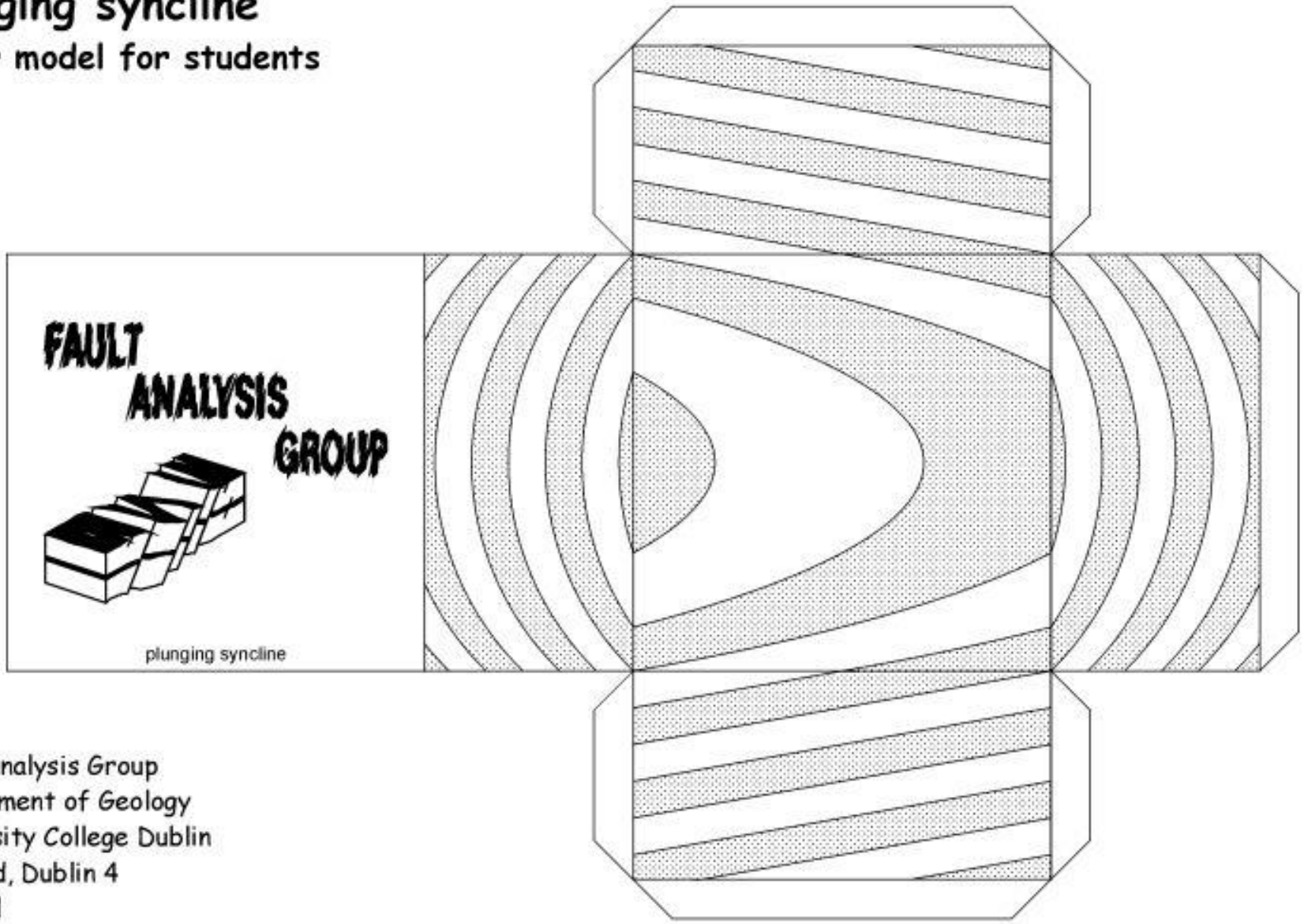
Paper model for students



Fault Analysis Group
Department of Geology
University College Dublin
Belfield, Dublin 4
Ireland
www.fault-analysis-group.ucd.ie

Plunging syncline

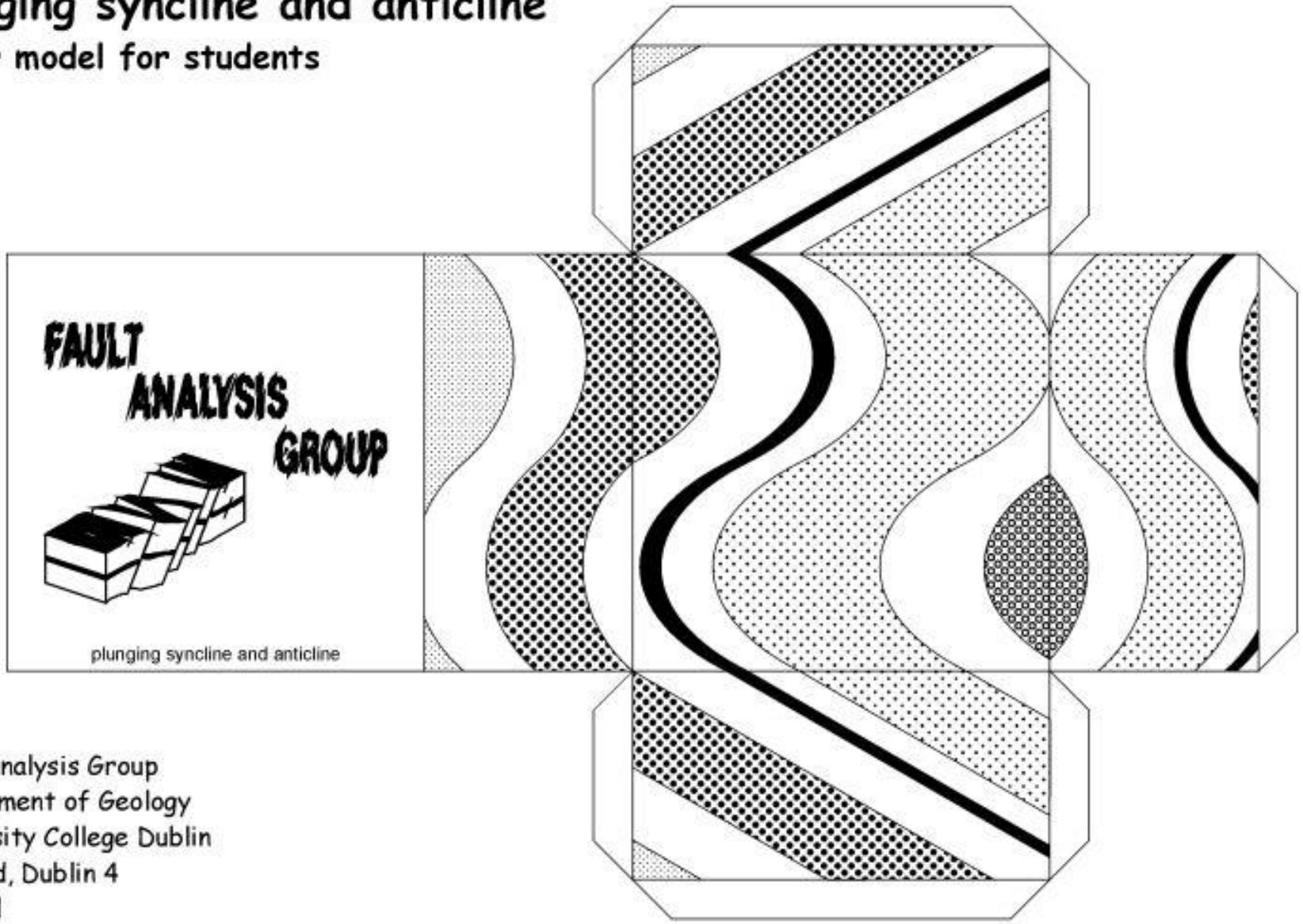
Paper model for students



Fault Analysis Group
Department of Geology
University College Dublin
Belfield, Dublin 4
Ireland
www.fault-analysis-group.ucd.ie

Plunging syncline and anticline

Paper model for students



Fault Analysis Group
Department of Geology
University College Dublin
Belfield, Dublin 4
Ireland
www.fault-analysis-group.ucd.ie