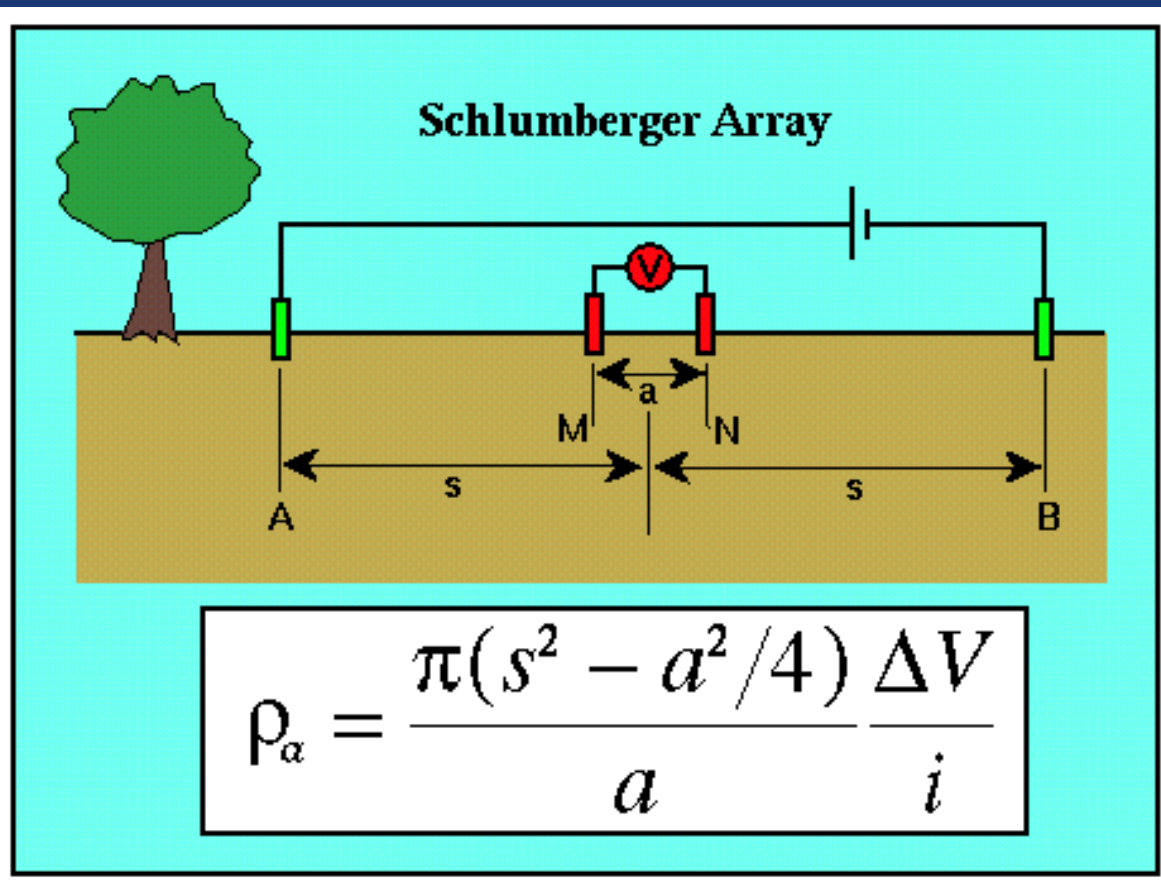


ΒΥΘΟΣΚΟΠΗΣΗ

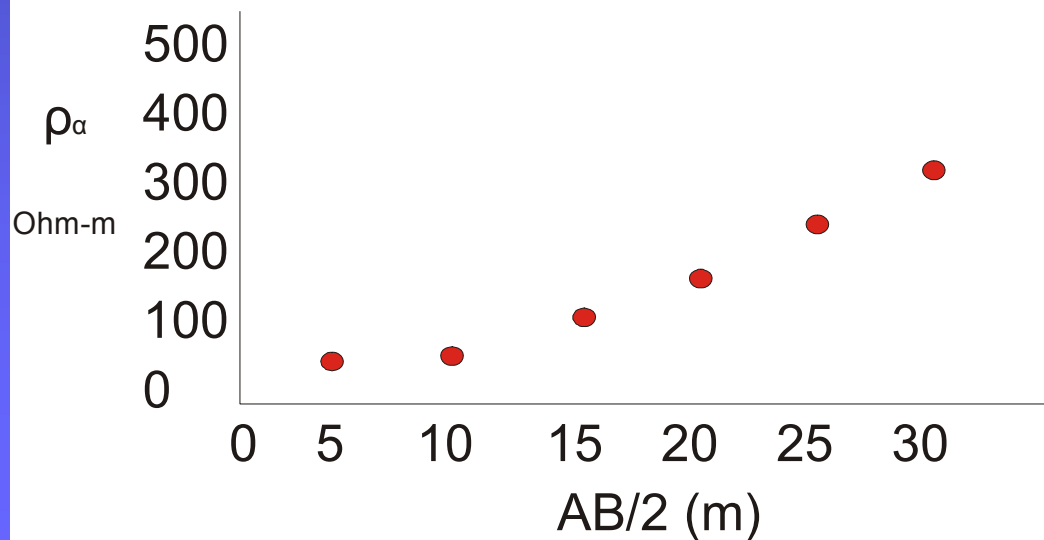
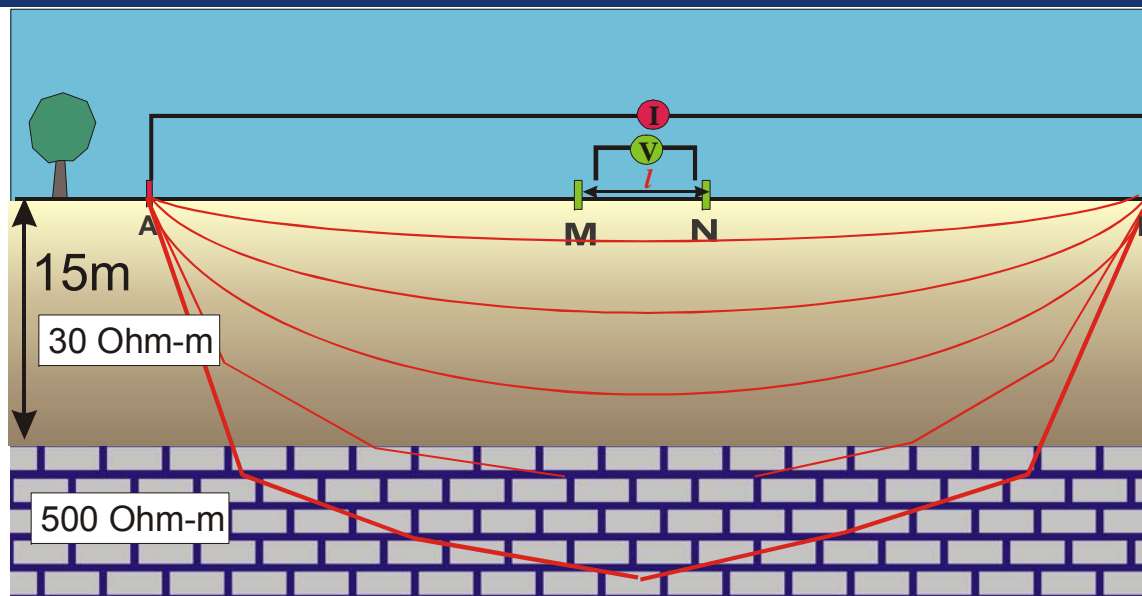
(VERTICAL ELECTRICAL SOUNDING, VES)

ΜΕΛΕΤΗ ΤΗΣ ΚΑΤΑΚΟΡΥΦΗΣ ΜΕΤΑΒΟΛΗΣ
ΤΗΣ ΑΝΤΙΣΤΑΣΗΣ

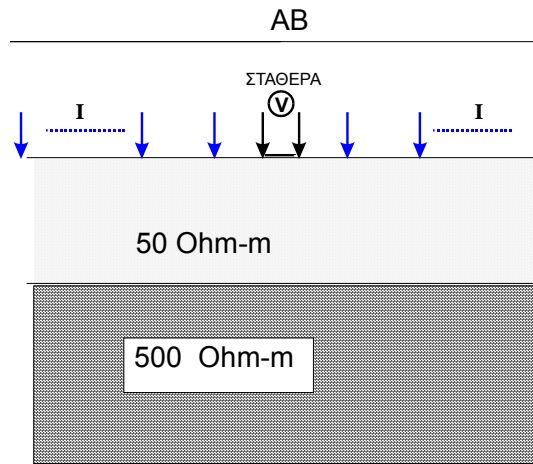
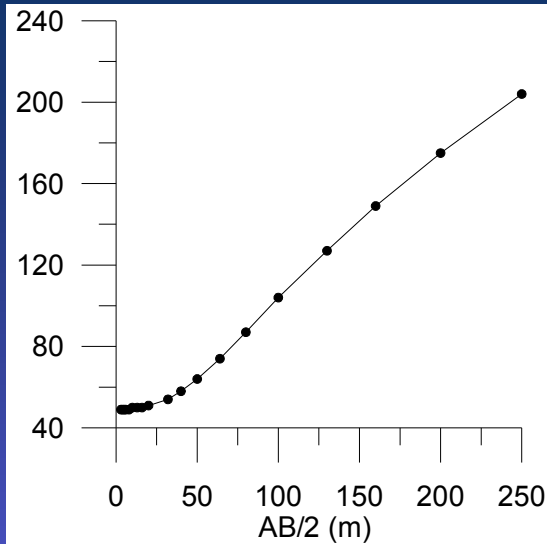
ΓΕΩΜΕΤΡΙΚΟΣ ΠΑΡΑΓΟΝΤΑΣ



ΒΥΘΟΣΚΟΠΗΣΗ



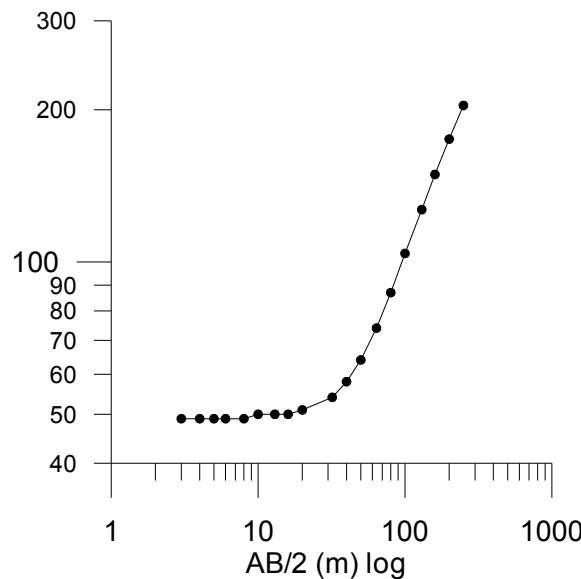
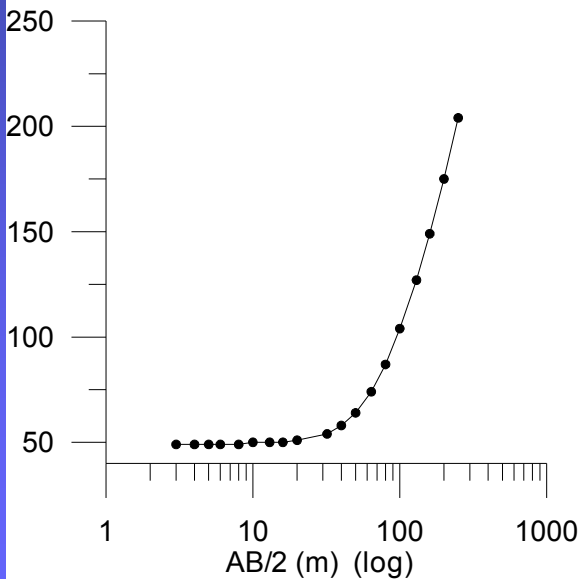
ΒΥΘΟΣΚΟΠΗΣΗ (SOUNDING)



- ΑΞΟΝΑΣ $X = AB/2$ (m)
- ΑΞΟΝΑΣ $Y = \text{ΦΑΙΝ. ΑΝΤΙΣΤΑΣΗ (OHM-M)}$
- 5-8 ΜΕΤΡΗΣΕΙΣ ΑΝΑ ΛΟΓΑΡΙΘΜΙΚΗ ΔΕΚΑΔΑ

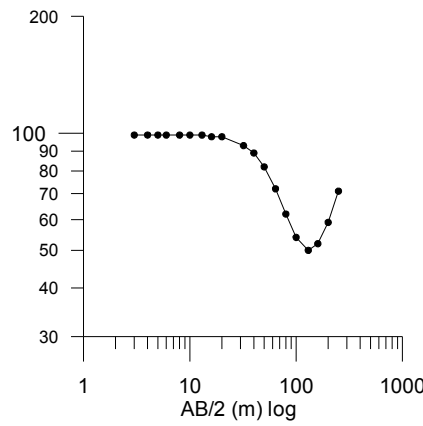
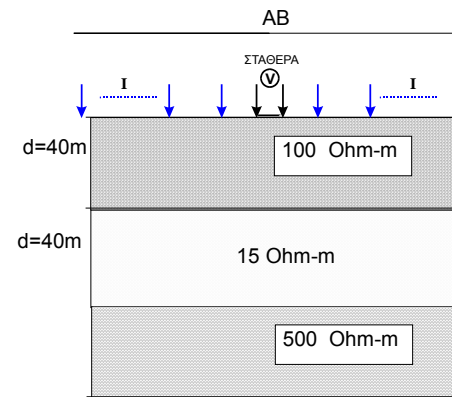
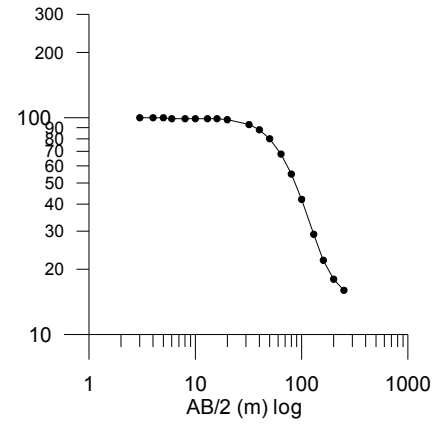
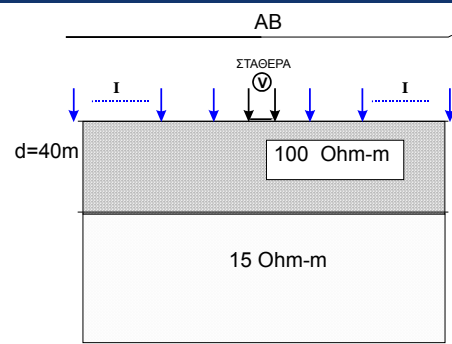
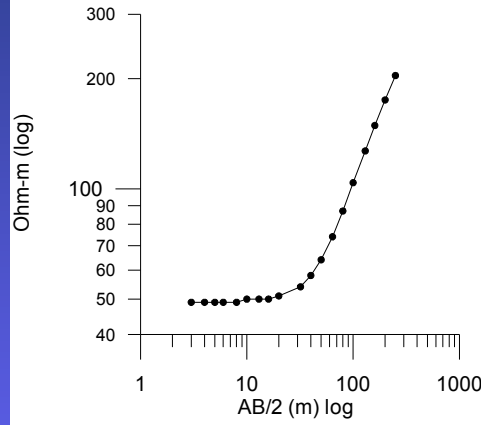
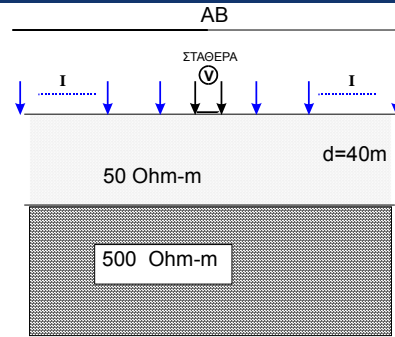
ΠΑΡΑΔΕΙΓΜΑ $AB/2$:

3.2, 4, 5, 6.4, 8,
10, 16, 20, 30, 40, 64, 80,
100, 130, 160, 200, 250

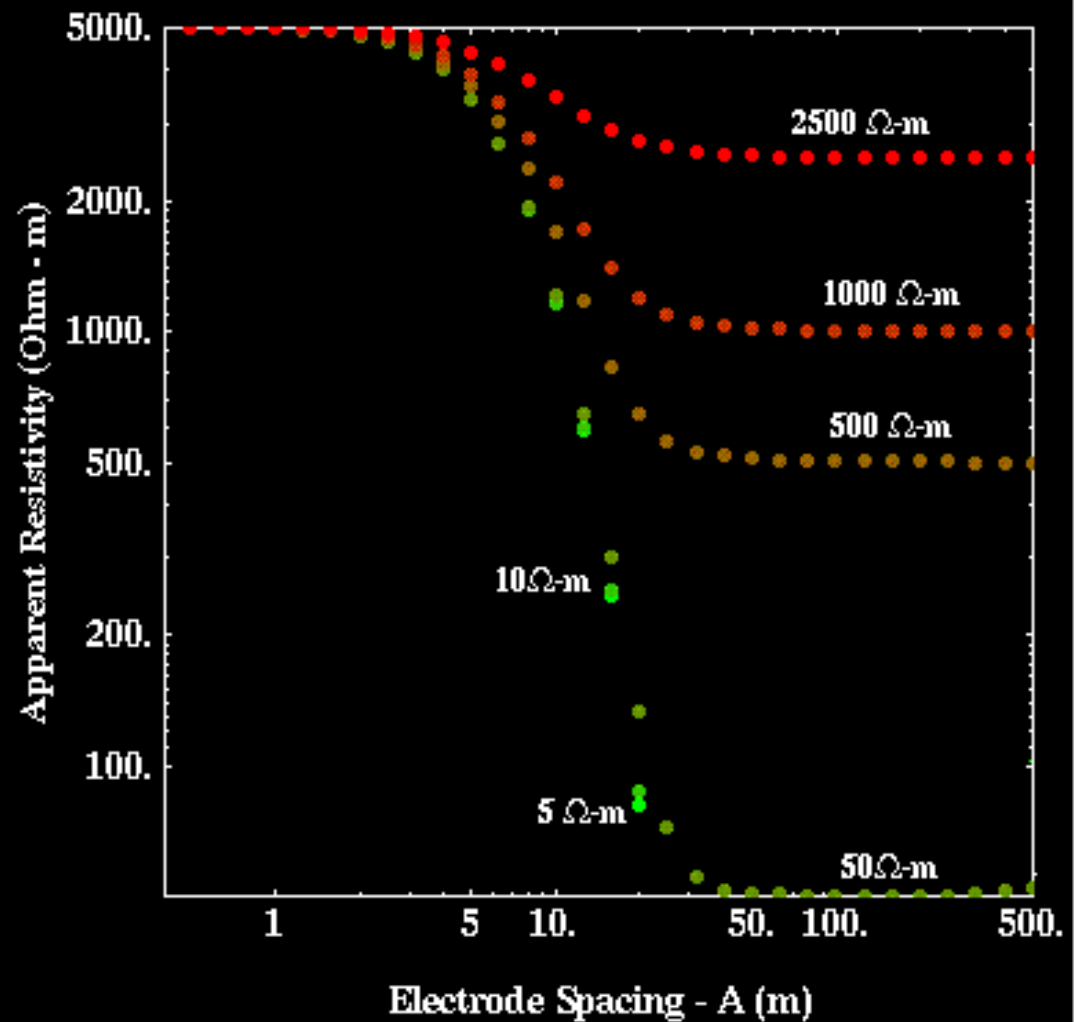
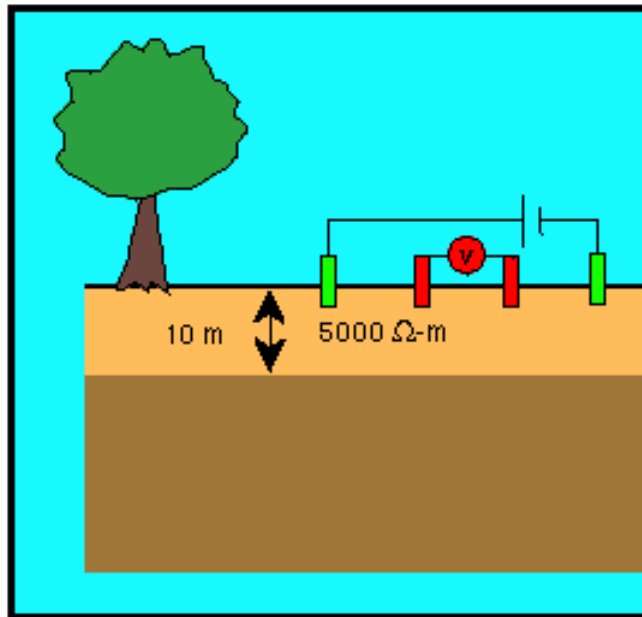


- ΔΙΛΟΓΑΡΙΘΜΙΚΗ ΚΛΙΜΑΚΑ

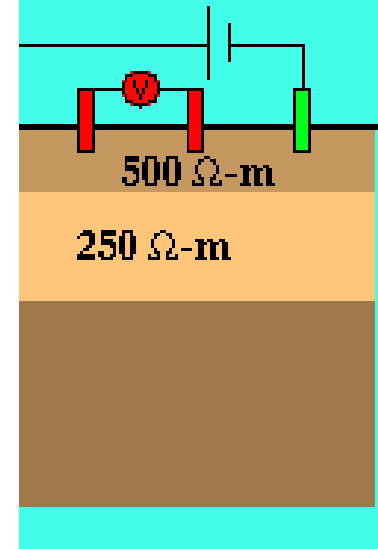
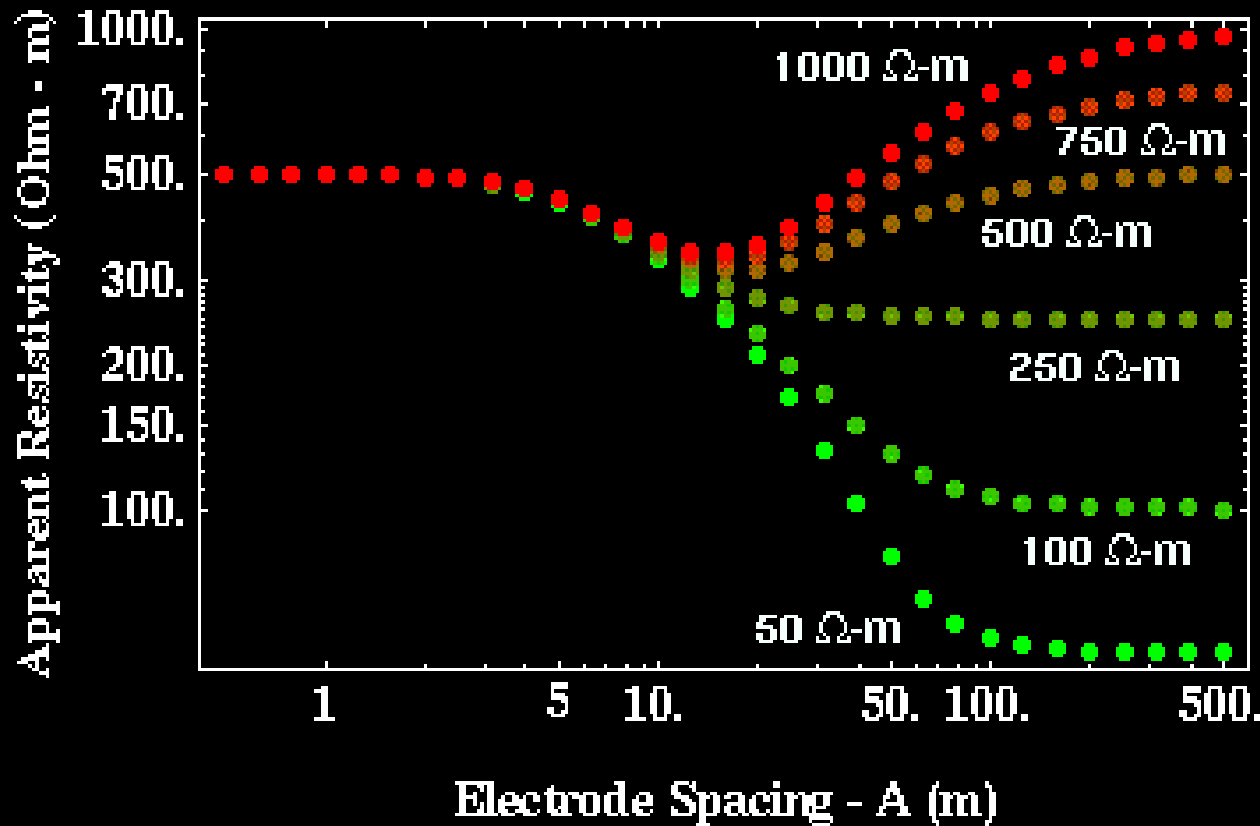
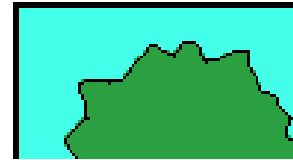
ΒΥΘΟΣΚΟΠΗΣΗ (SOUNDING)



ΒΥΘΟΣΚΟΠΗΣΗ –2 ΣΤΡΩΜΑΤΑ

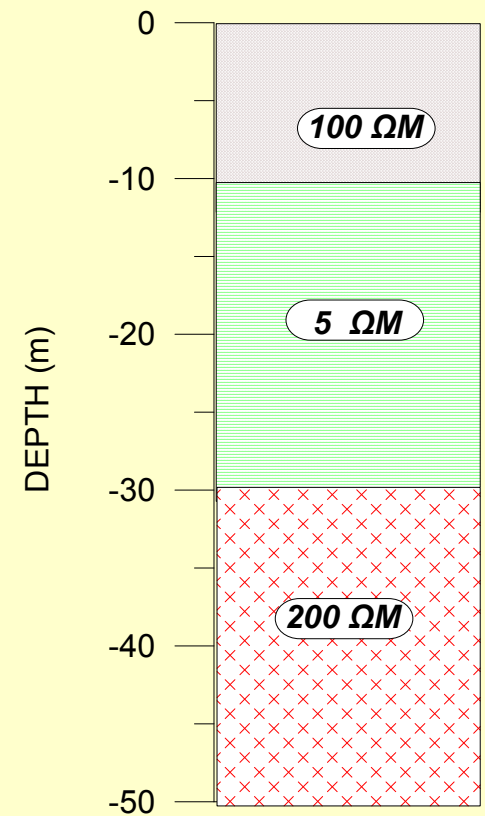
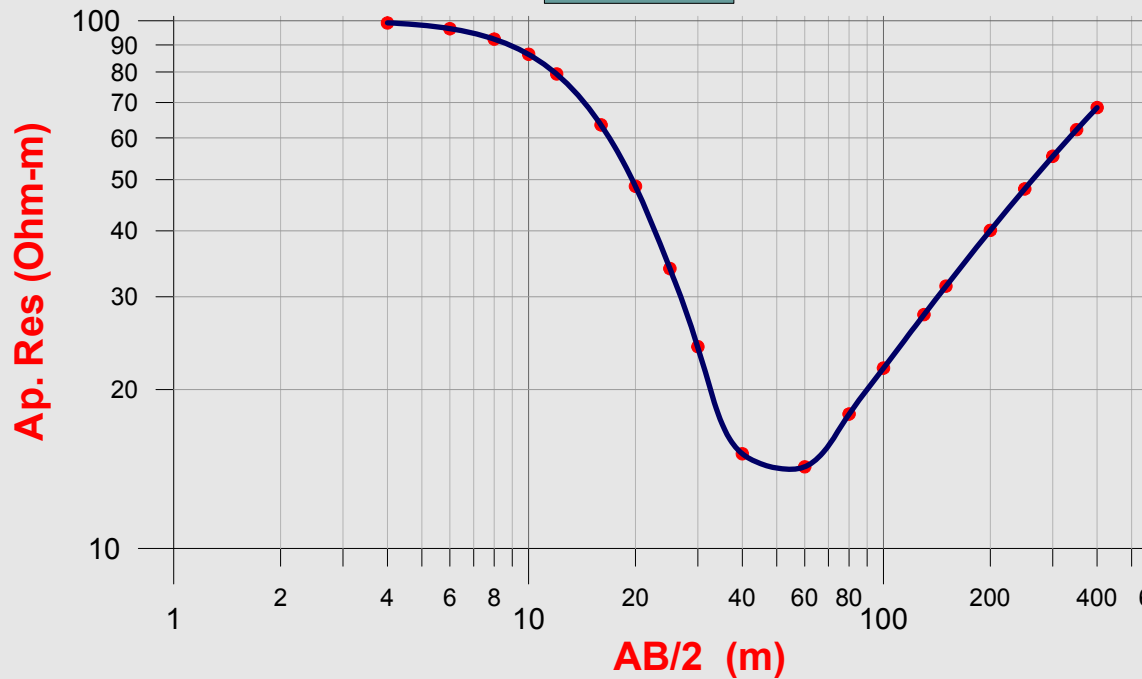


ΒΥΘΟΣΚΟΠΗΣΗ -3 ΣΤΡΩΜΑΤΑ

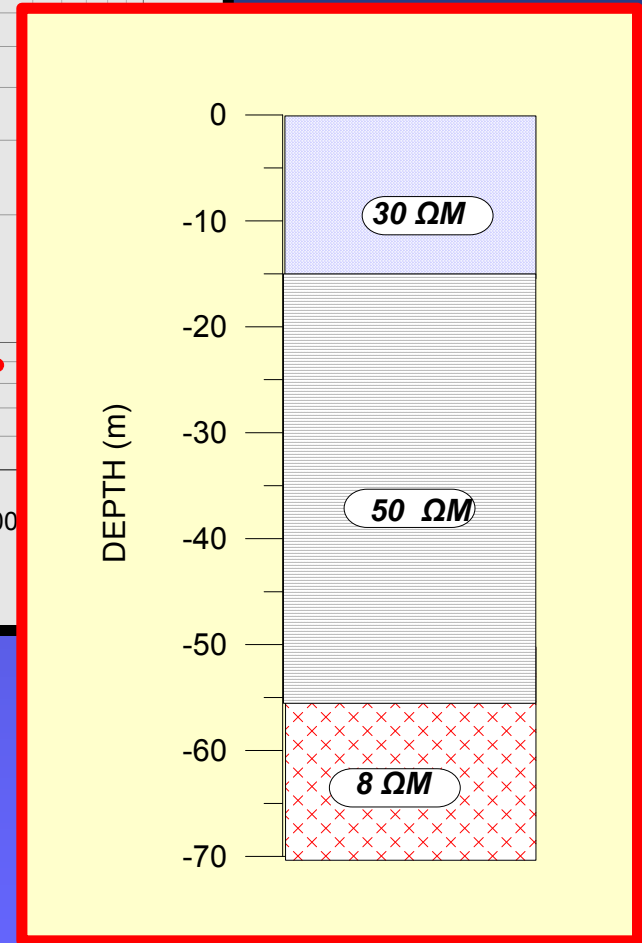
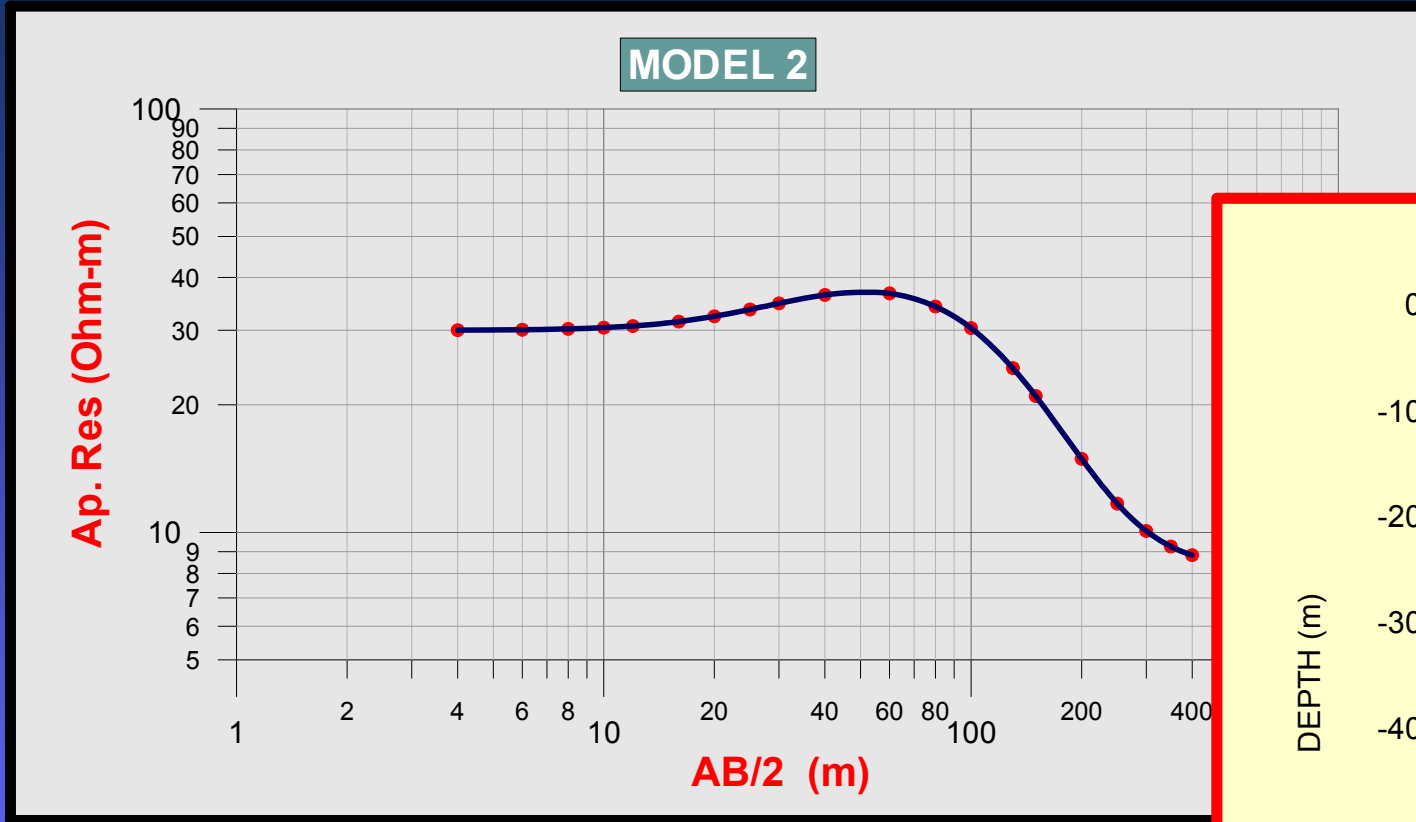


ΒΥΘΟΣΚΟΠΗΣΗ – ΠΑΡΑΔΕΙΓΜΑ 1

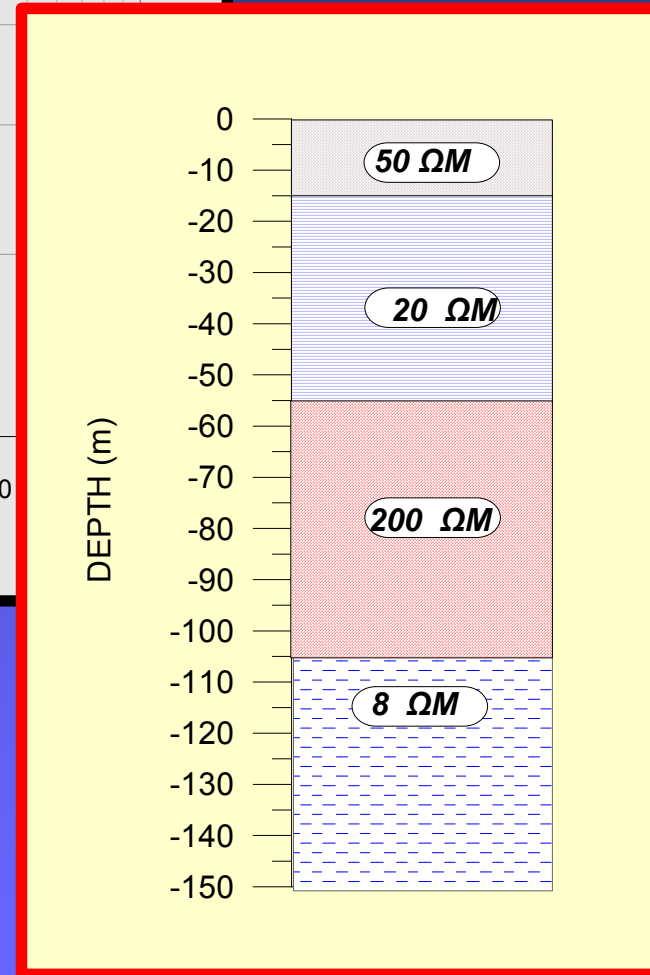
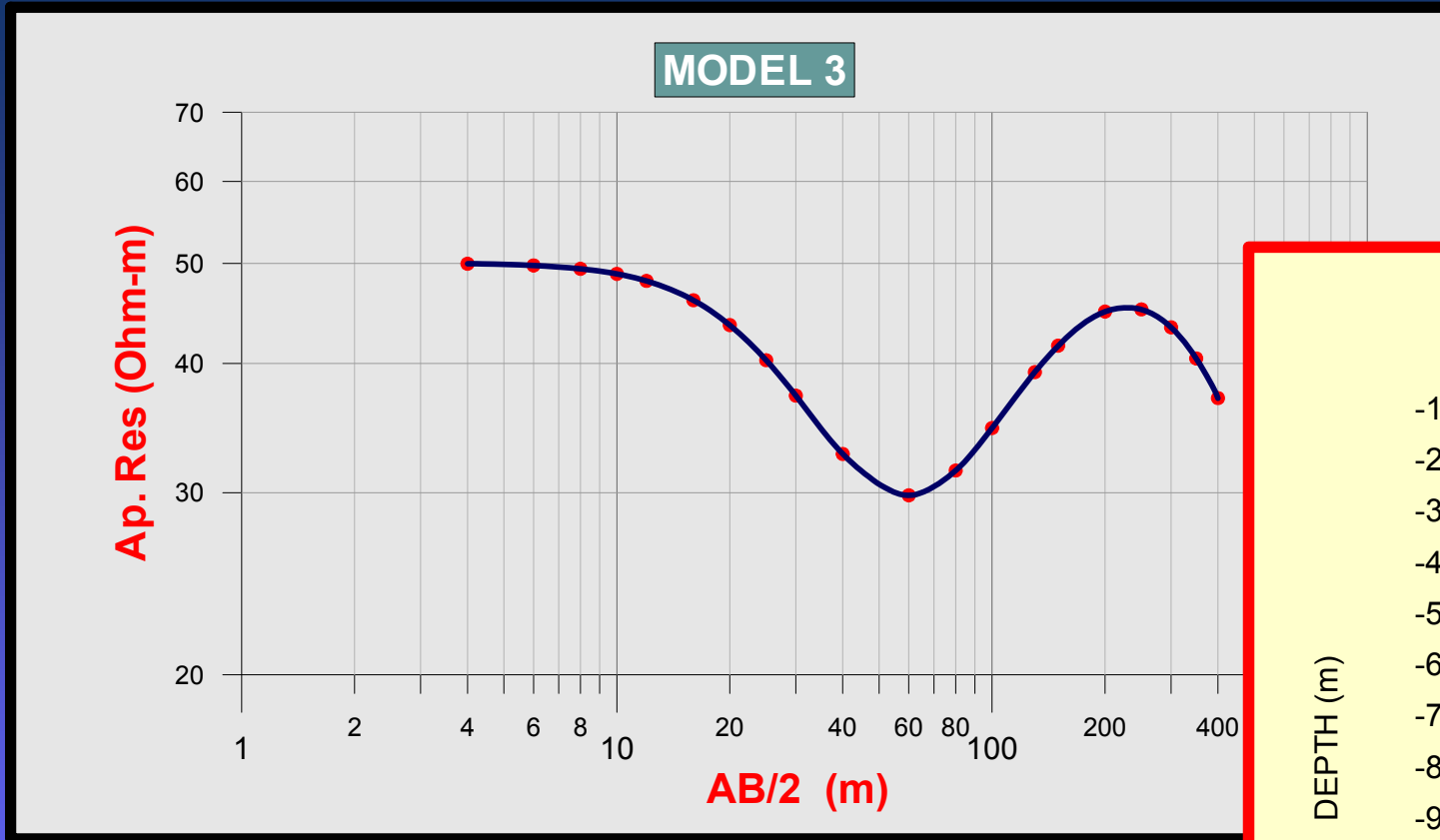
MODEL 1



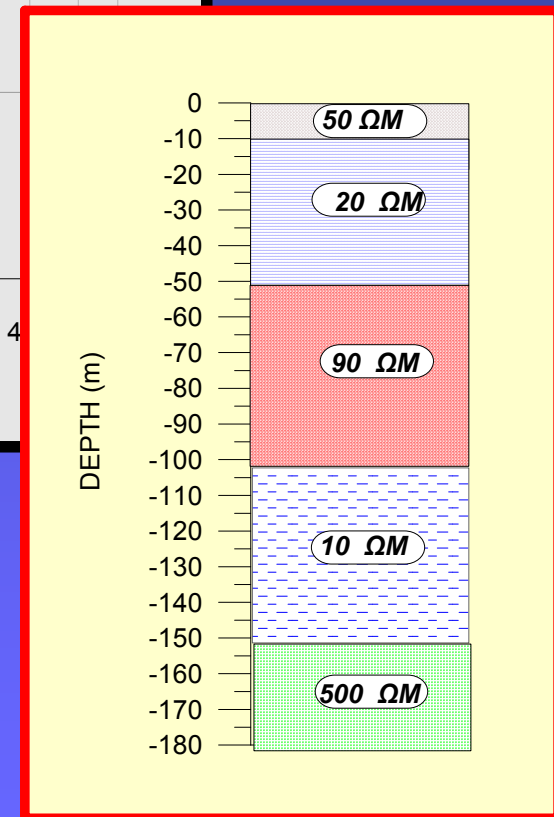
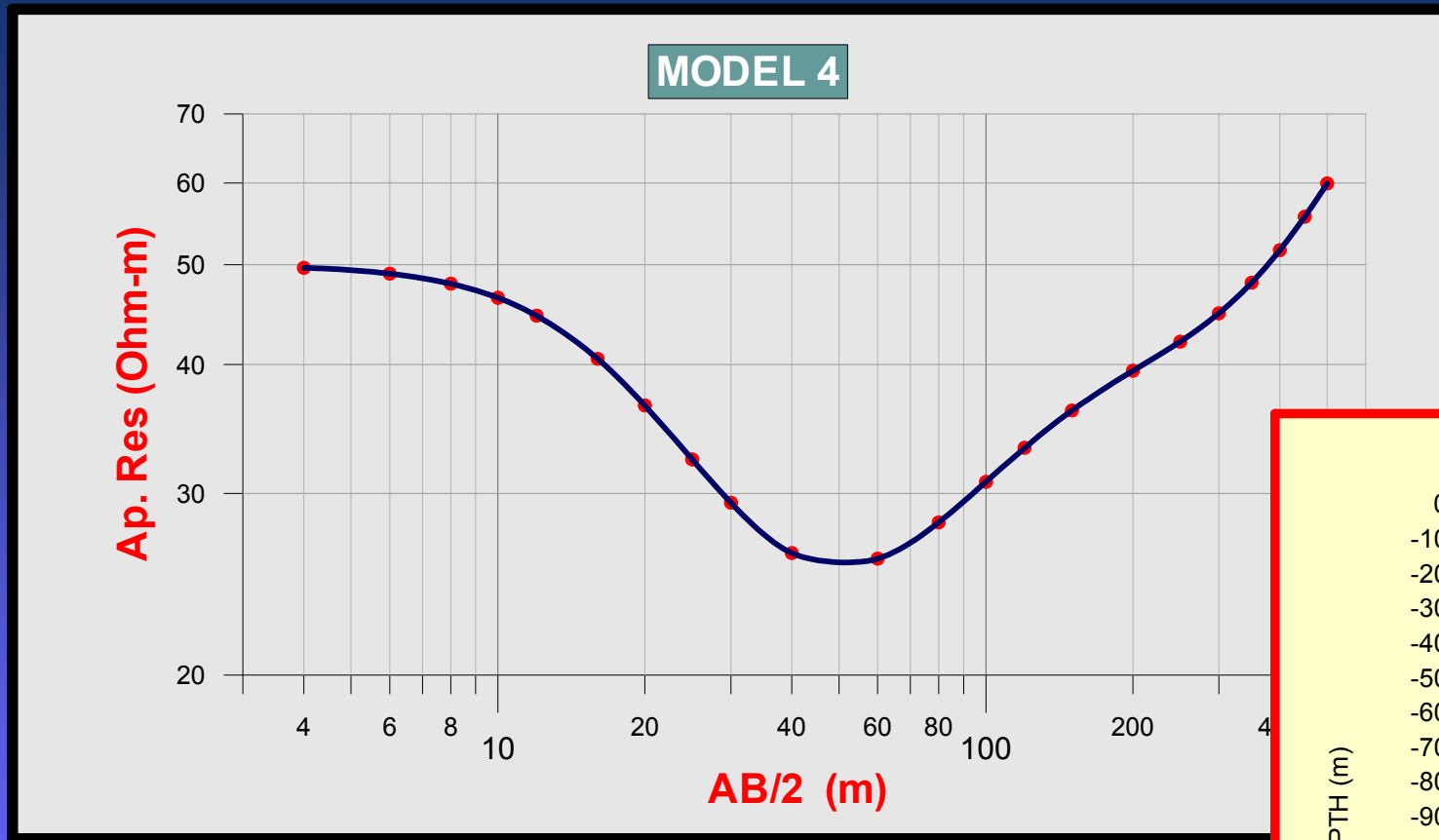
ΒΥΘΟΣΚΟΠΗΣΗ – ΠΑΡΑΔΕΙΓΜΑ 2



ΒΥΘΟΣΚΟΠΗΣΗ – ΠΑΡΑΔΕΙΓΜΑ 3

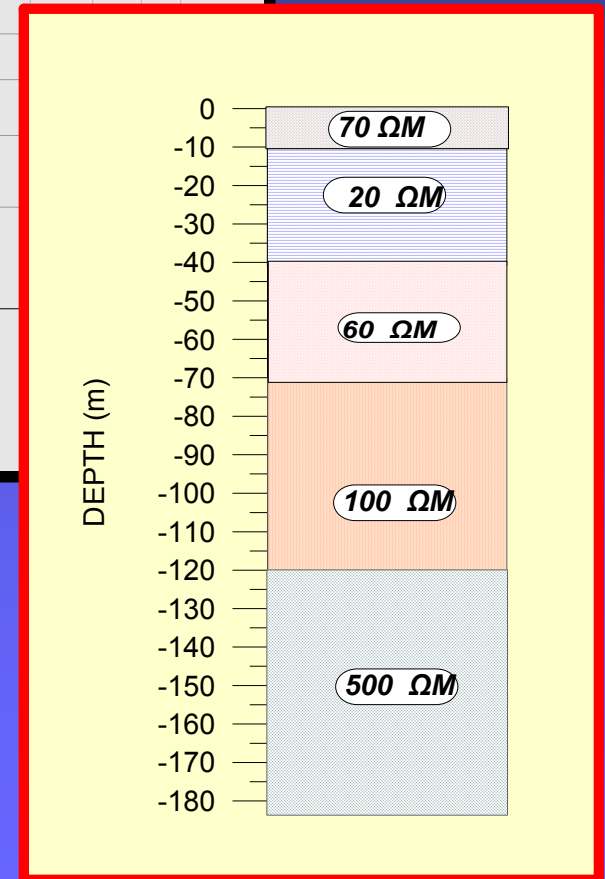
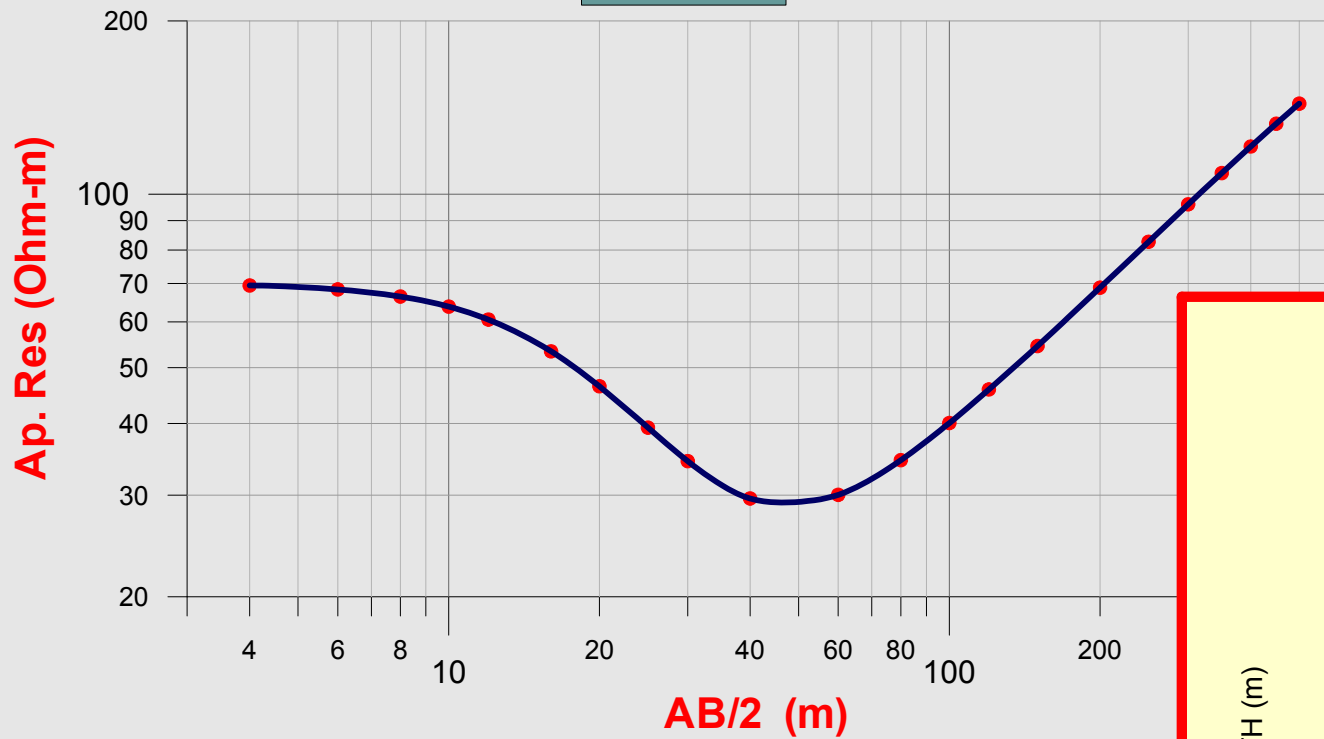


ΒΥΘΟΣΚΟΠΗΣΗ – ΠΑΡΑΔΕΙΓΜΑ 4

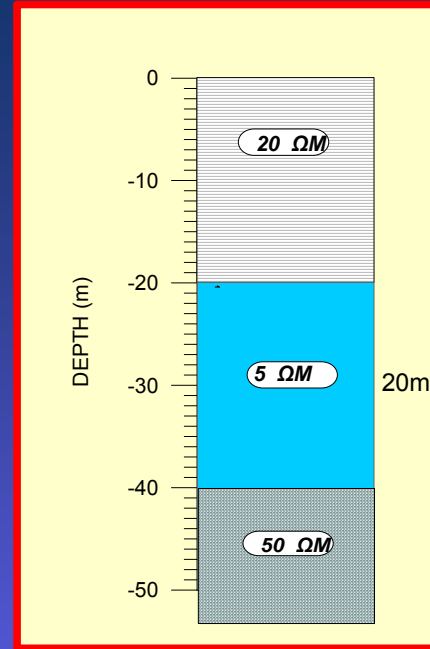
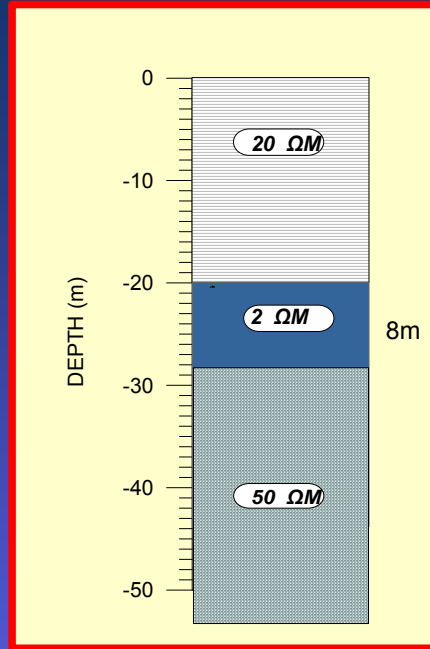
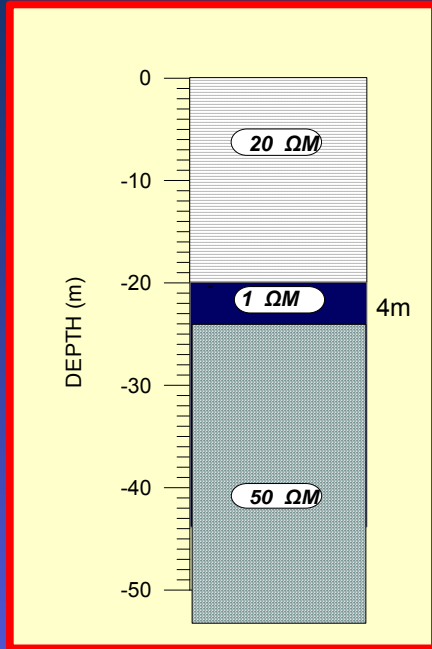


ΒΥΘΟΣΚΟΠΗΣΗ – ΠΑΡΑΔΕΙΓΜΑ 5

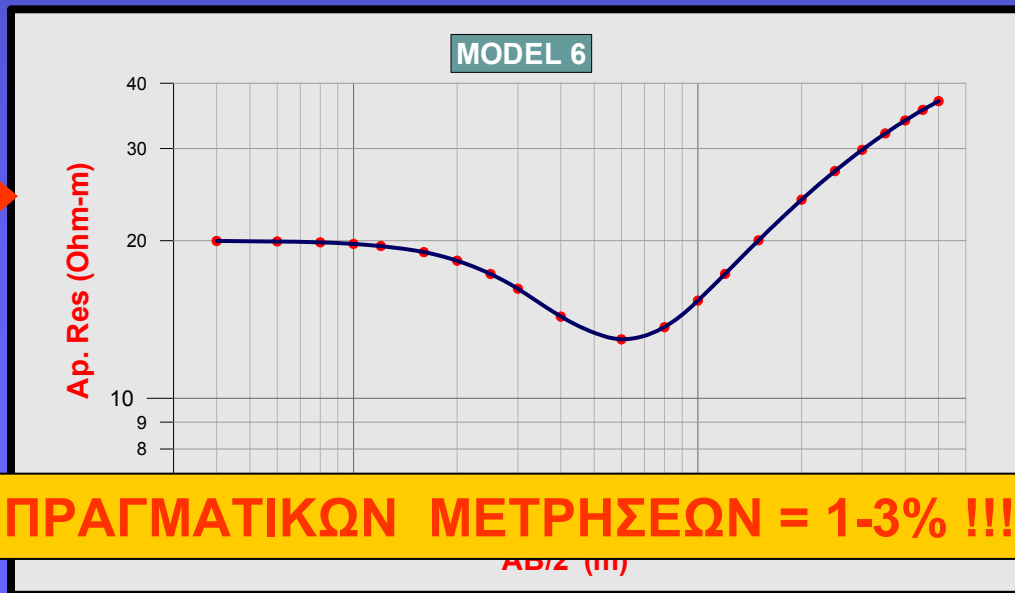
MODEL 5



ΒΥΘΟΣΚΟΠΗΣΗ – ΠΑΡΑΔΕΙΓΜΑ 6

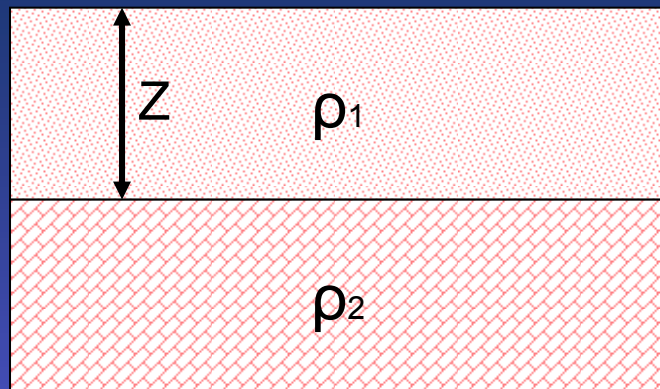


0.05%



ΣΦΑΛΜΑ ΠΡΑΓΜΑΤΙΚΩΝ ΜΕΤΡΗΣΕΩΝ = 1-3% !!!

ΕΡΜΗΝΕΙΑ - ΠΡΟΤΥΠΕΣ ΚΑΜΠΥΛΕΣ 2 ΣΤΡΩΜΑΤΩΝ



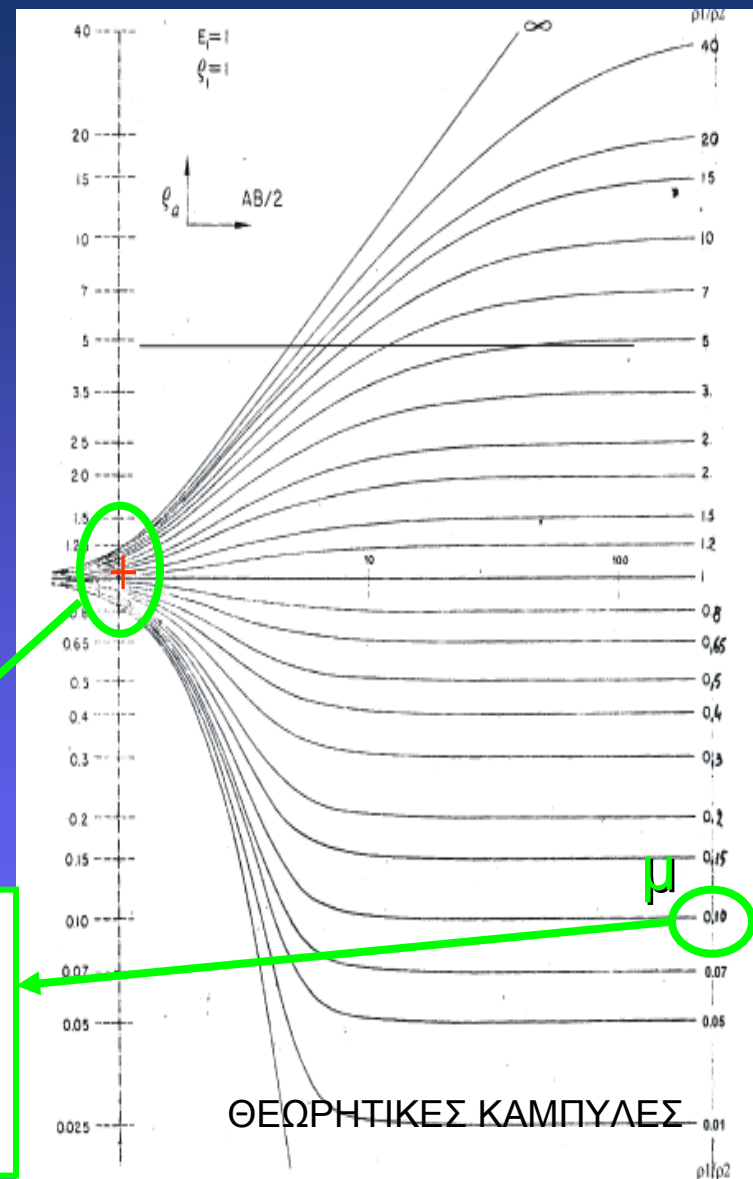
ΠΡΟΤΥΠΕΣ ΚΑΜΠΥΛΕΣ 2 ΣΤΡΩΜΑΤΩΝ

ΧΑΡΤΟΓΡΑΦΗΣΗ ΣΕ Log-log
ΓΙΑ ΔΙΑΦΟΡΟΥΣ ΛΟΓΟΥΣ ρ_2/ρ_1

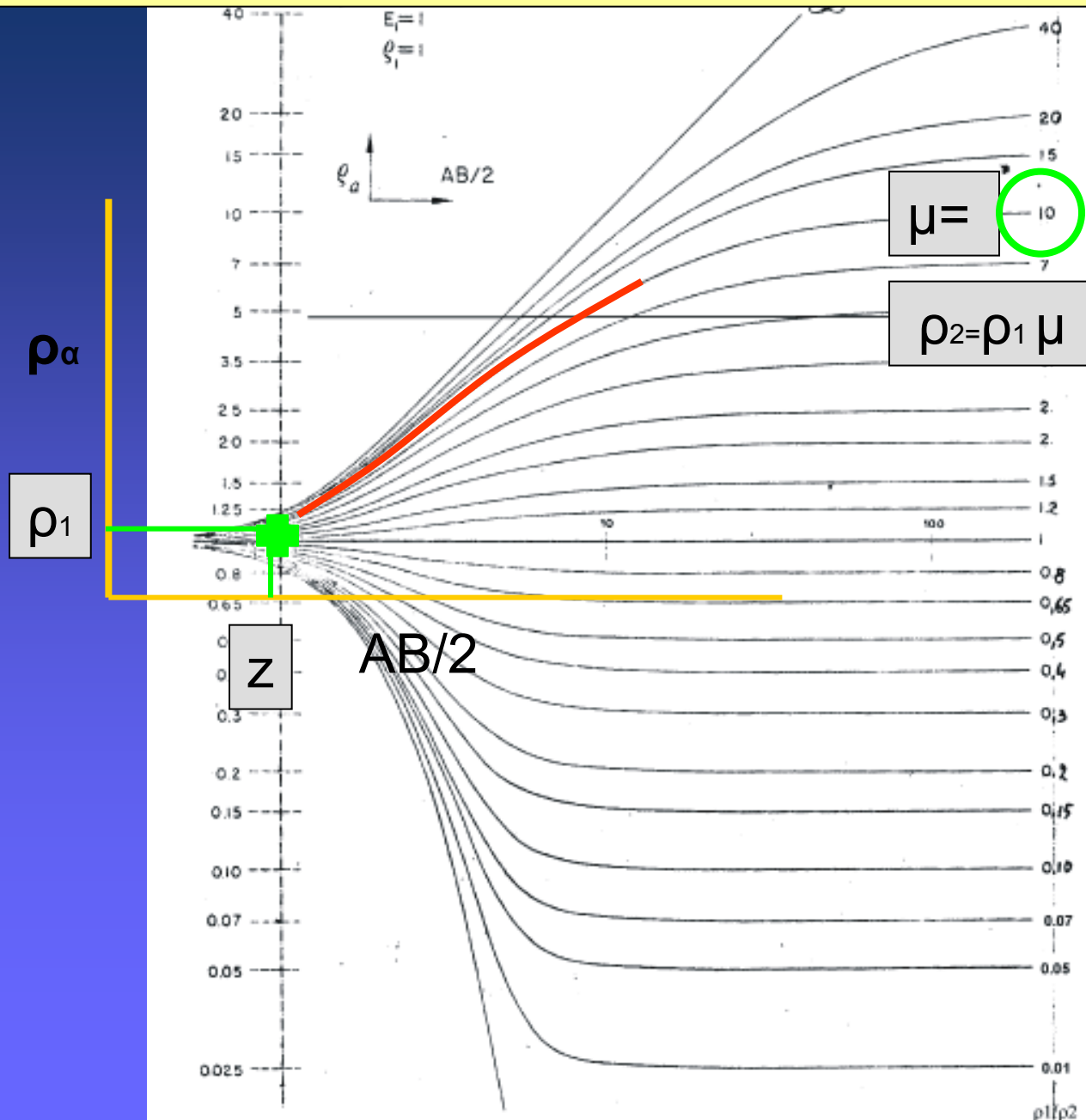
- ΑΞΟΝΑΣ Χ = $(AB/2)/Z$
- ΑΞΟΝΑΣ Υ = ρ_2/ρ_1

ΑΡΧΗ ΑΞΟΝΩΝ (1,1)

$$\frac{AB/2}{Z} = \frac{\rho_2}{\rho_1} = 1, \quad \frac{\rho_2}{\rho_1} = \mu$$

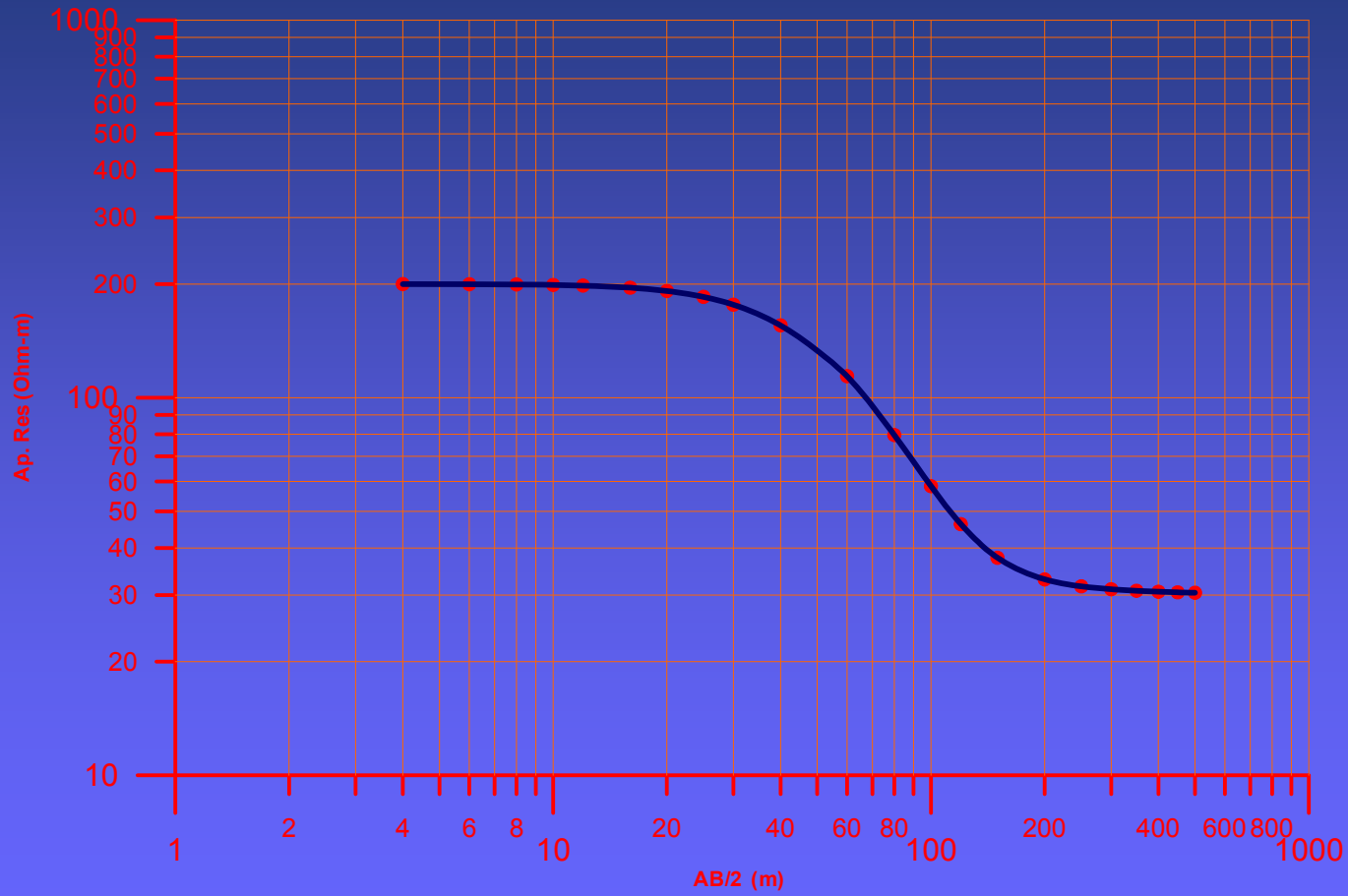


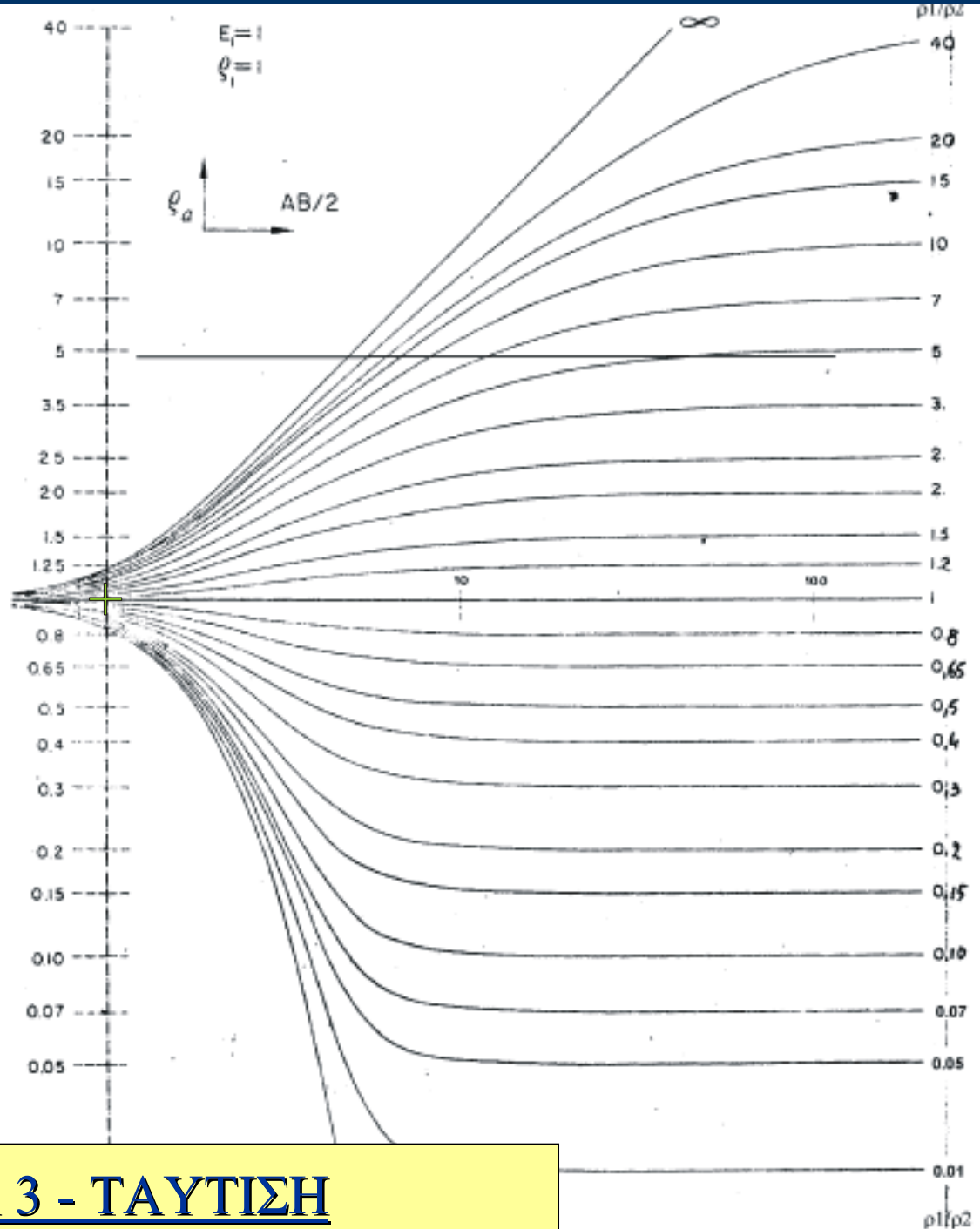
ΕΡΜΗΝΕΙΑ - ΠΡΟΤΥΠΕΣ ΚΑΜΠΥΛΕΣ 2 ΣΤΡΩΜΑΤΩΝ



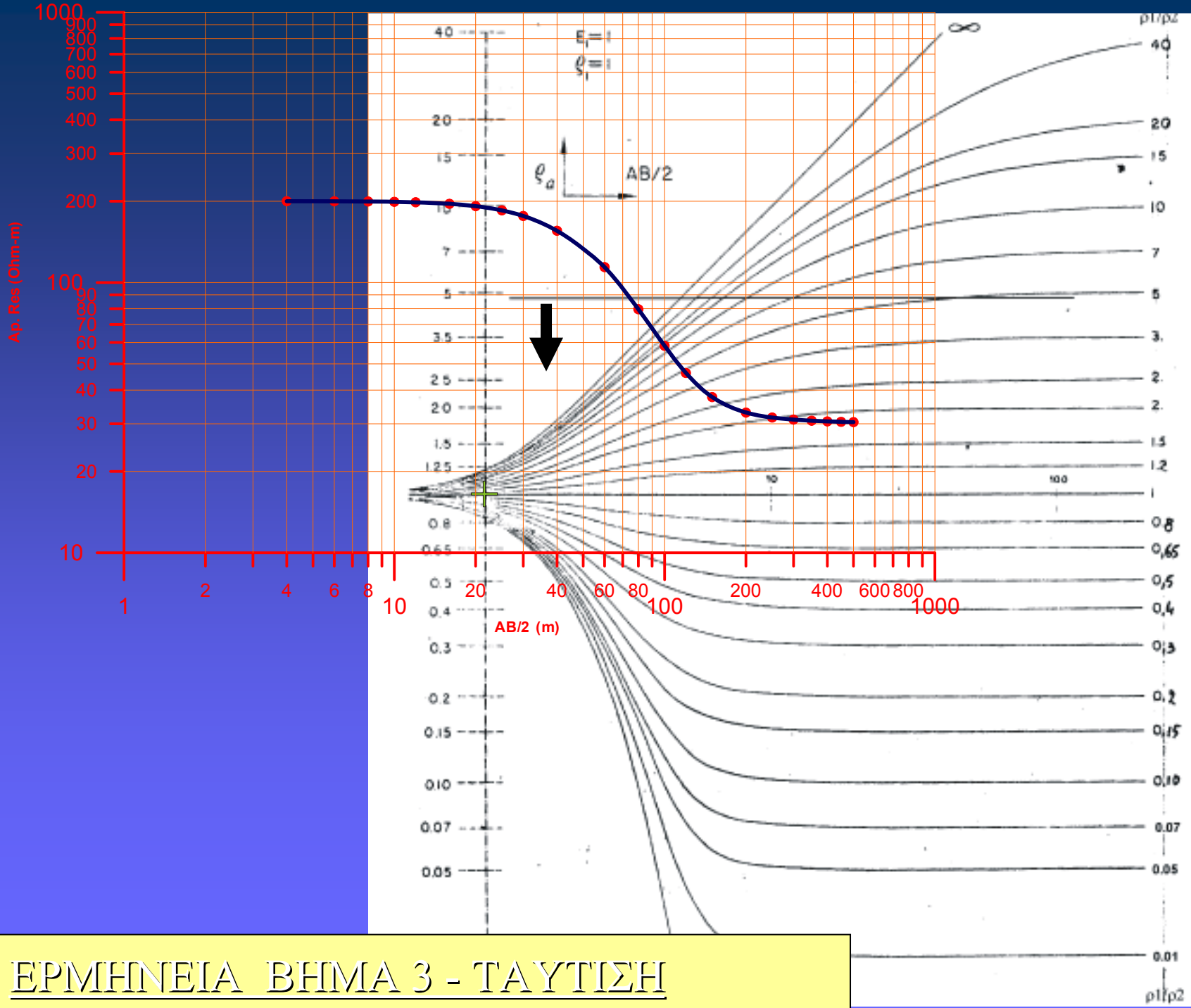
ΓΡΑΦΙΚΗ ΕΡΜΗΝΕΙΑ – ΒΗΜΑ 2

ΜΕΤΡΗΣΕΙΣ $AB/2$ (X), ΦΑΙΝ. ΑΝΤΙΣΤΑΣΗΣ (Y)
ΣΕ LOG-LOG ΔΙΑΦΑΝΕΣ

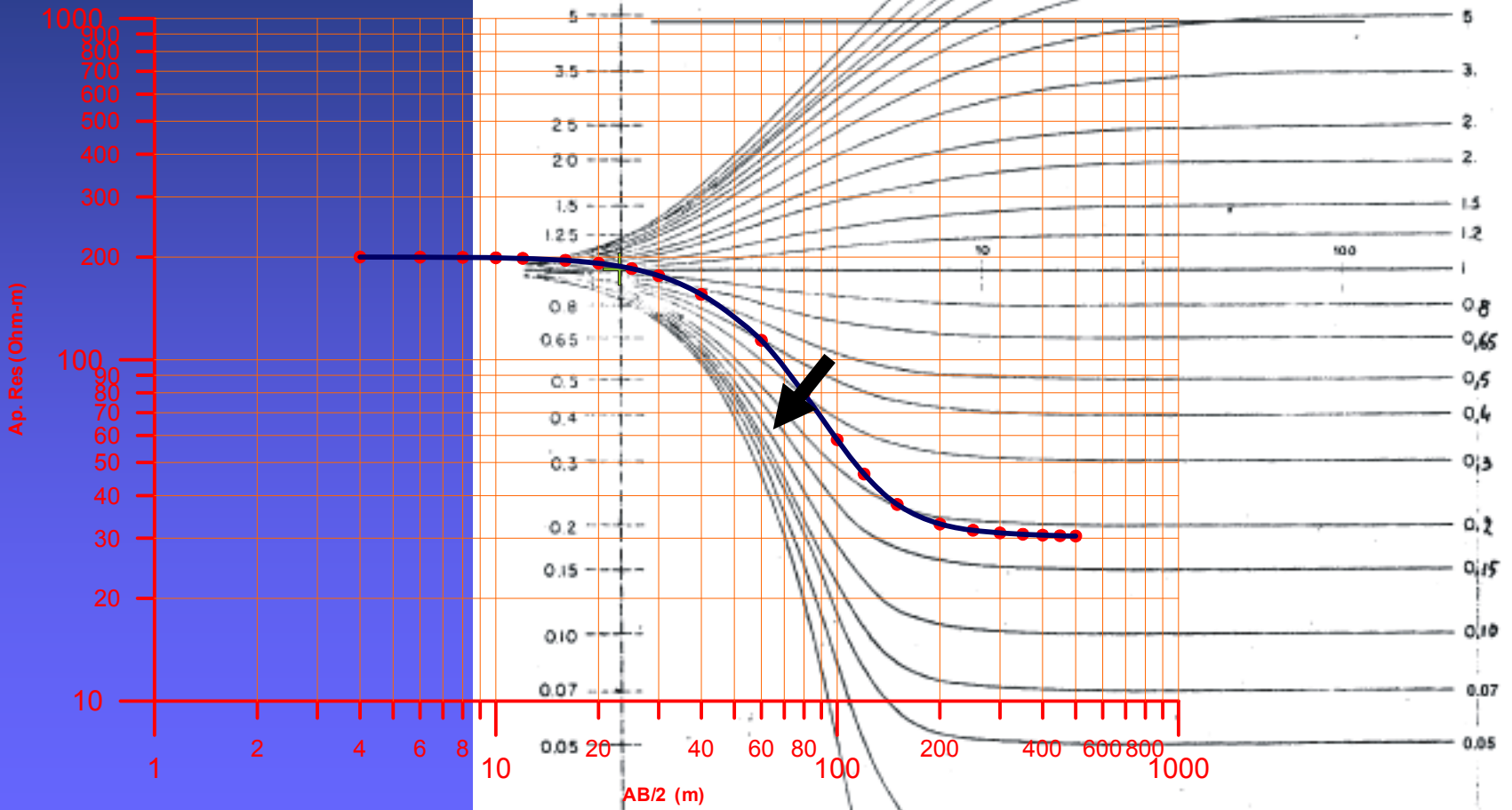




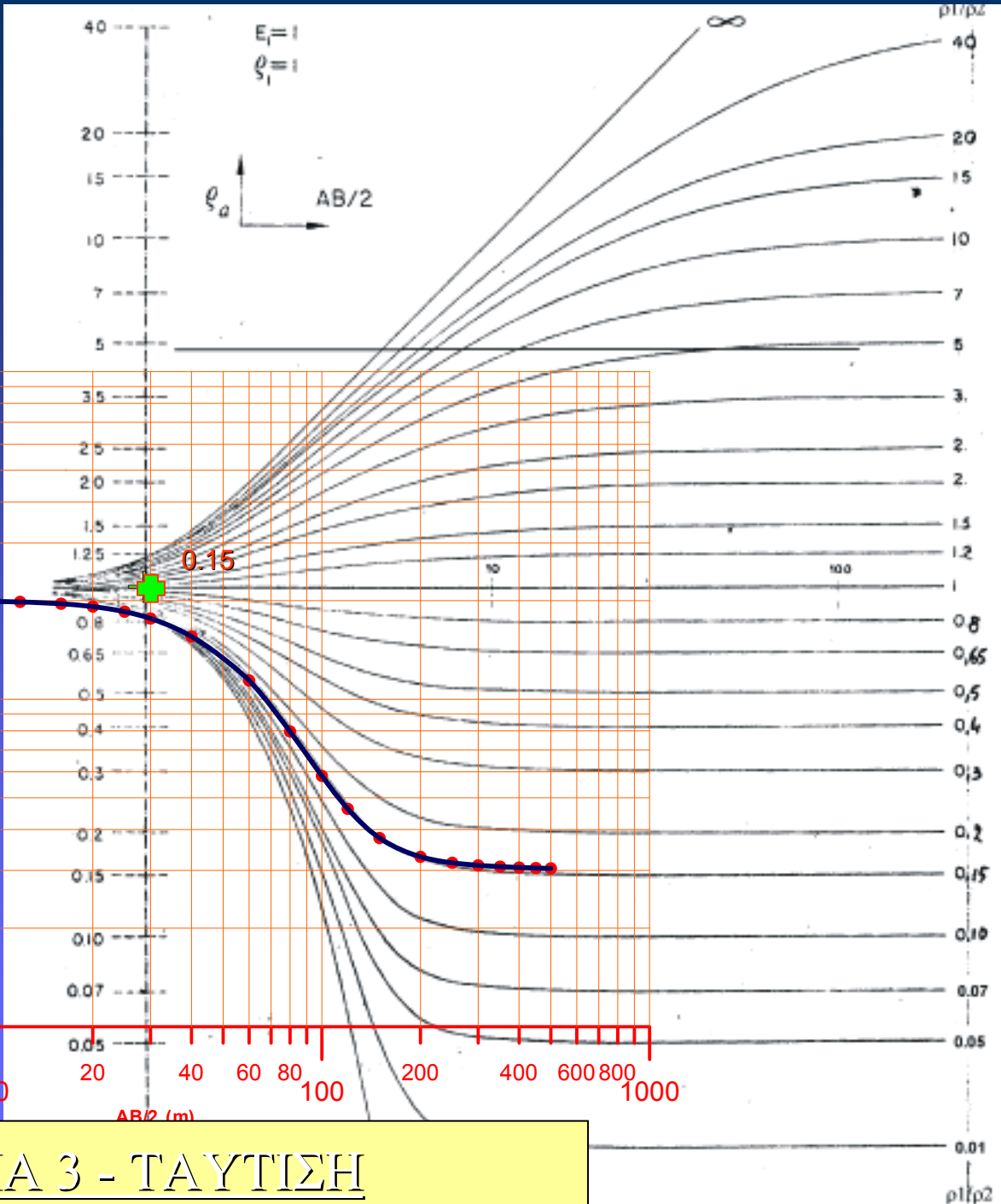
ΕΡΜΗΝΕΙΑ ΒΗΜΑ 3 - ΤΑΥΤΙΣΗ



ΕΡΜΗΝΕΙΑ ΒΗΜΑ 3 - ΤΑΥΤΙΣΗ



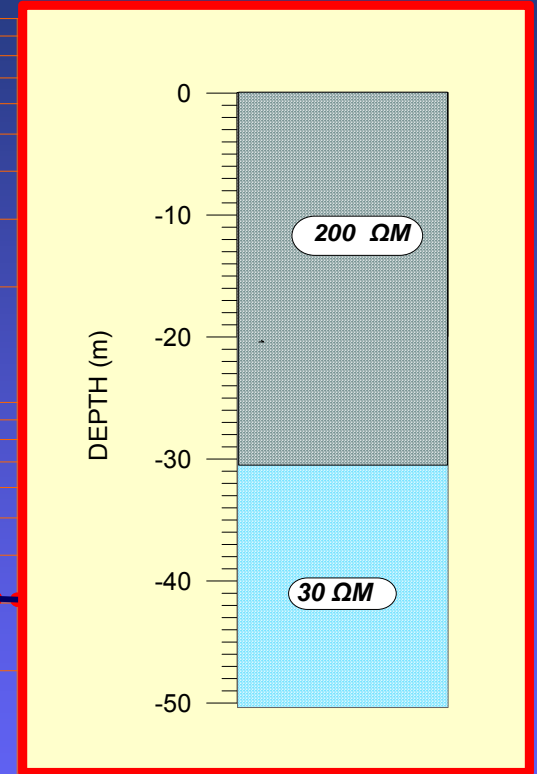
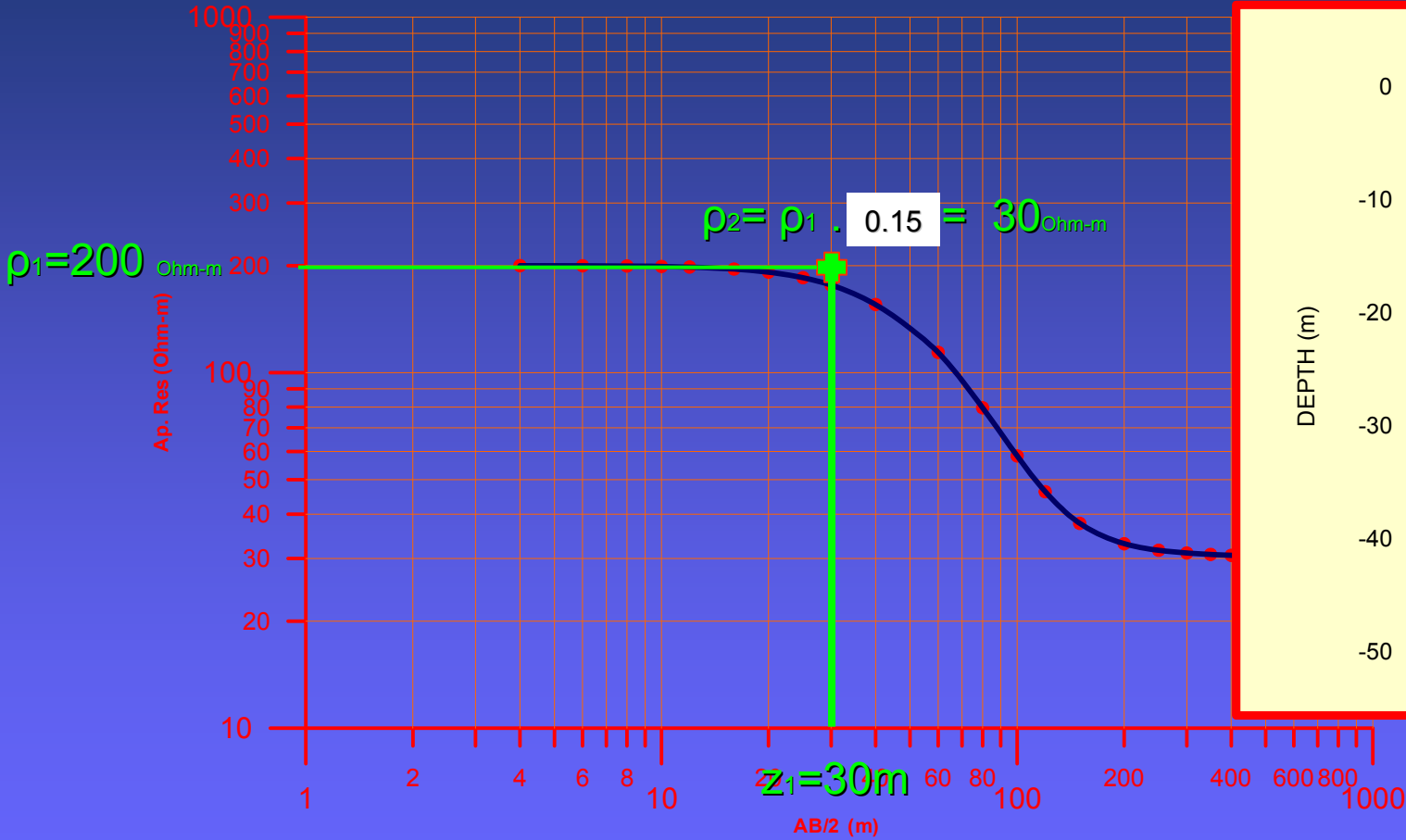
ΕΡΜΗΝΕΙΑ ΒΗΜΑ 3 - ΤΑΥΤΙΣΗ



ΕΡΜΗΝΕΙΑ ΒΗΜΑ 3 - ΤΑΥΤΙΣΗ

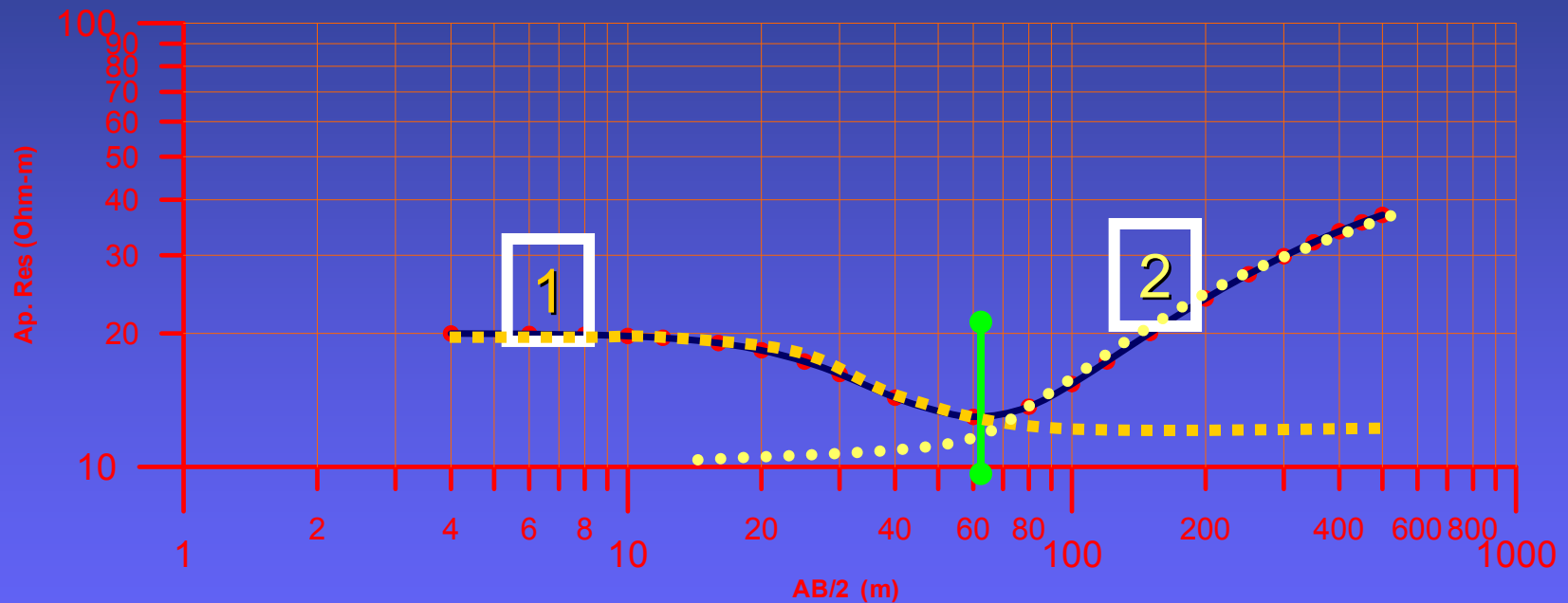
ΕΡΜΗΝΕΙΑ ΒΗΜΑ 4

ΥΠΟΛΟΓΙΣΜΟΣ ΑΝΤΙΣΤΑΣΕΩΝ - ΠΑΧΟΥΣ

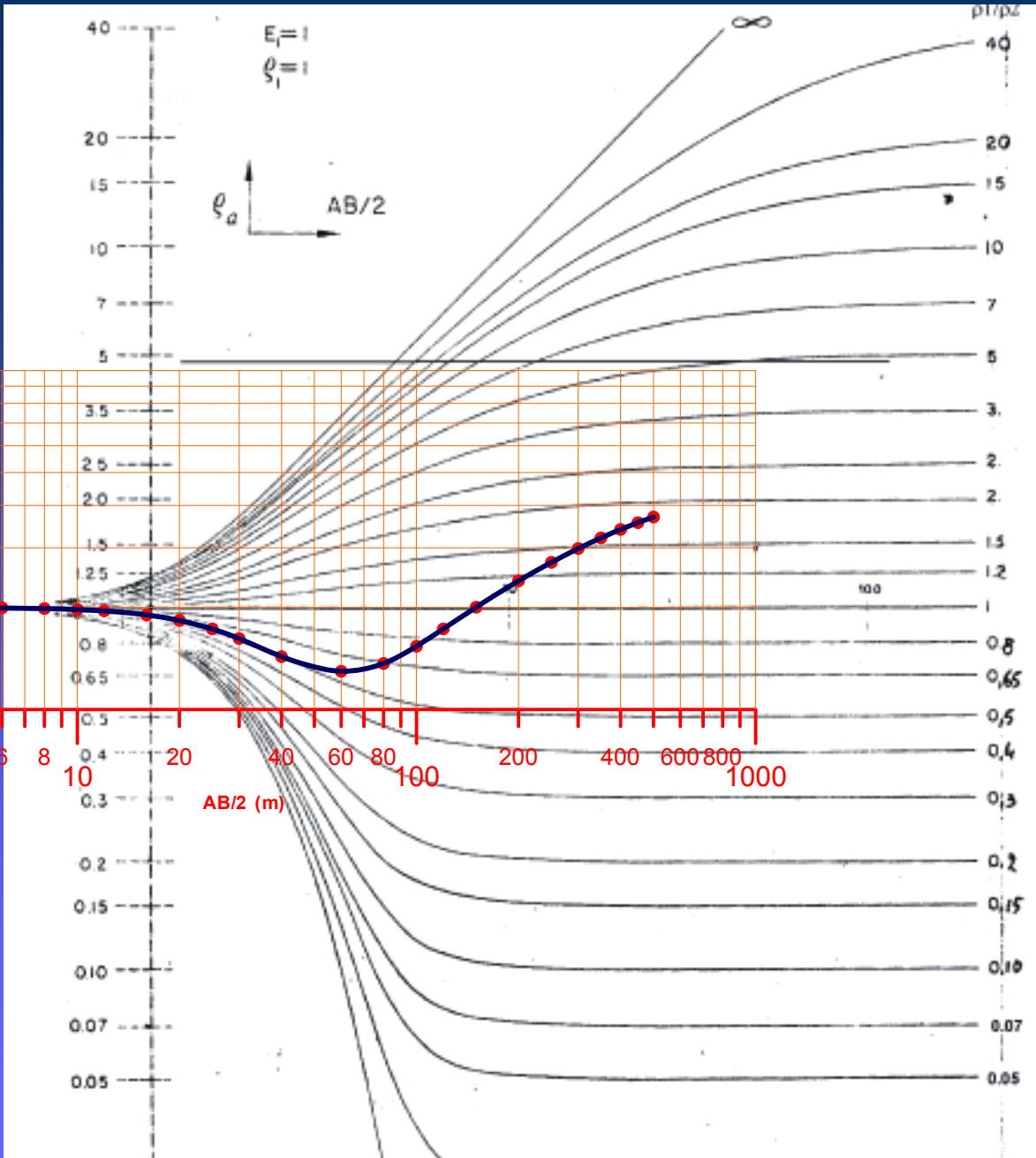
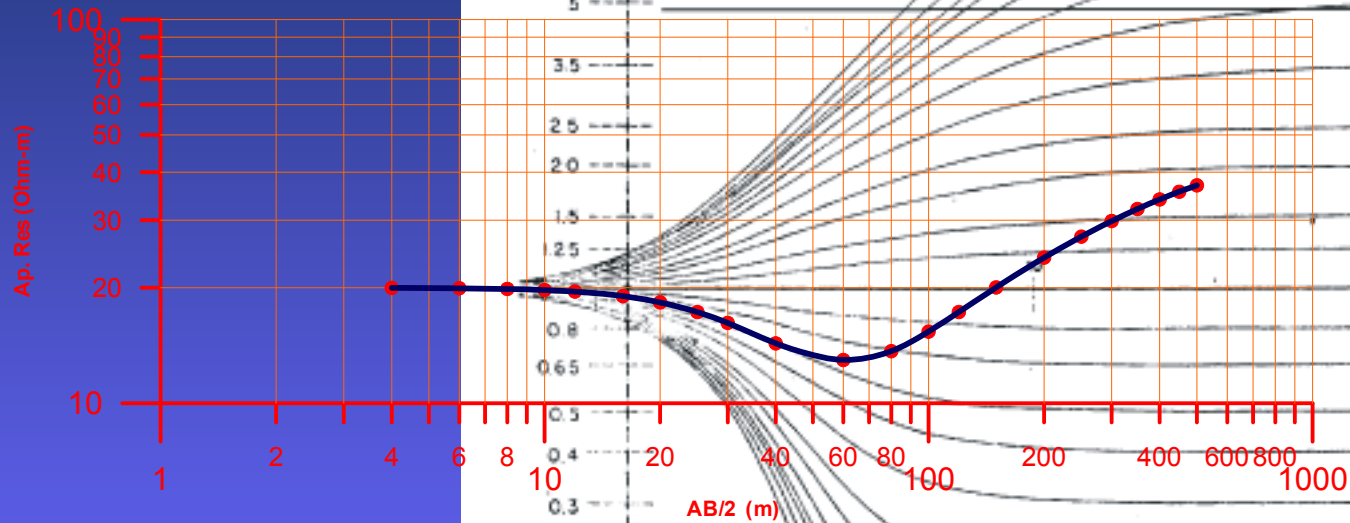


ΓΡΑΦΙΚΗ ΕΡΜΗΝΕΙΑ ΠΟΛΛΩΝ ΣΤΡΩΜΑΤΩΝ

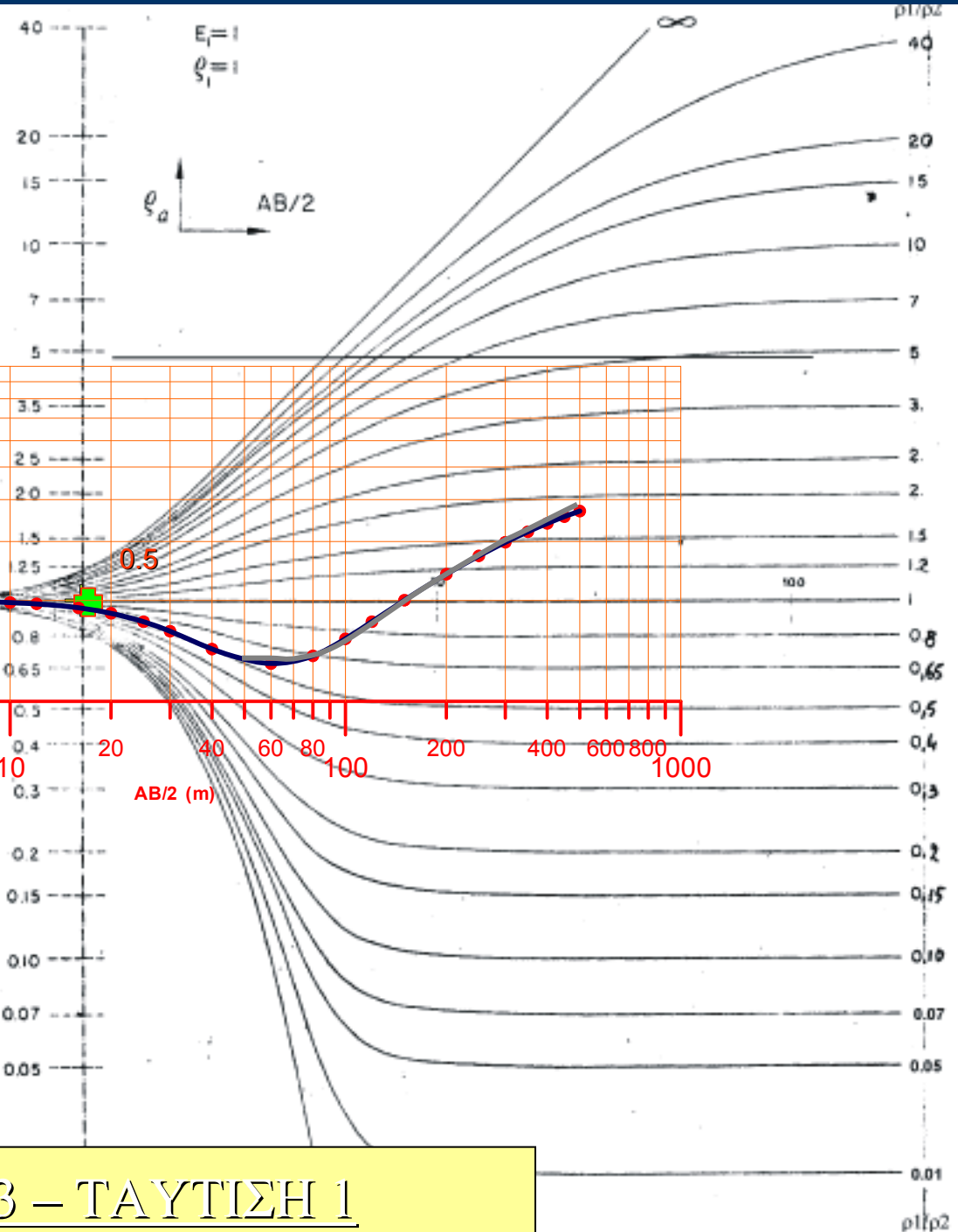
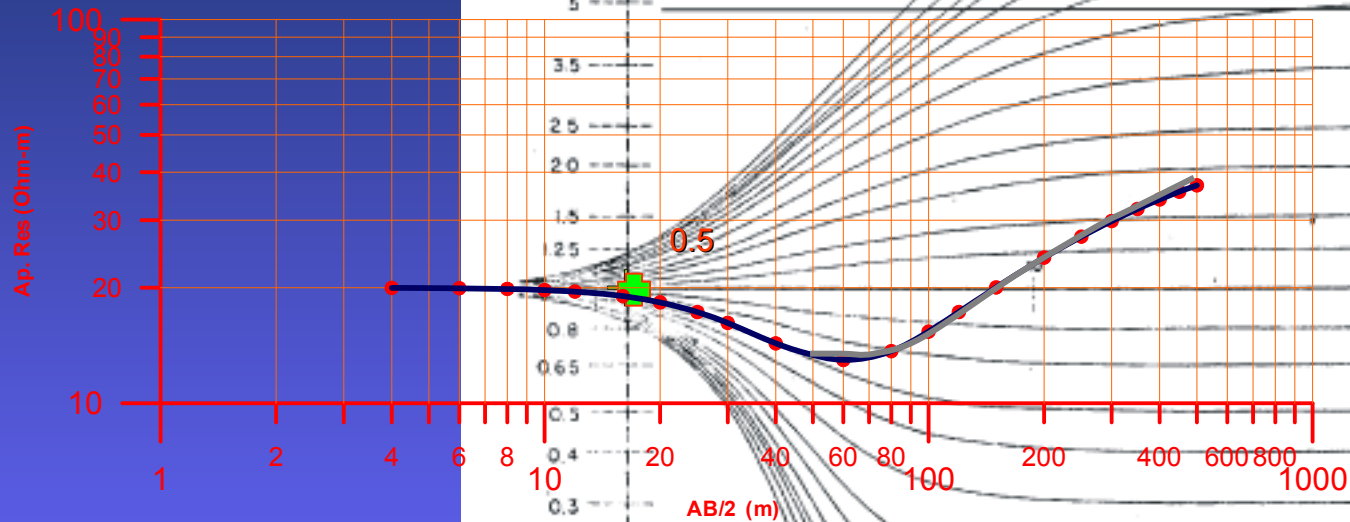
ΜΠΟΡΕΙ ΝΑ ΧΡΗΣΙΜΟΠΟΙΗΘΕΙ Η ΙΔΙΑ ΔΙΑΔΙΚΑΣΙΑ ΓΙΑ
ΜΕΤΡΗΣΕΙΣ ΜΕ 3-4 ΚΑΙ ΠΕΡΙΣΣΟΤΕΡΑ ΣΤΡΩΜΑΤΑ
ΠΡΟΣΟΧΗ – ΔΕ ΔΙΝΕΙ ΑΚΡΙΒΗ ΑΠΟΤΕΛΕΣΜΑΤΑ !!!



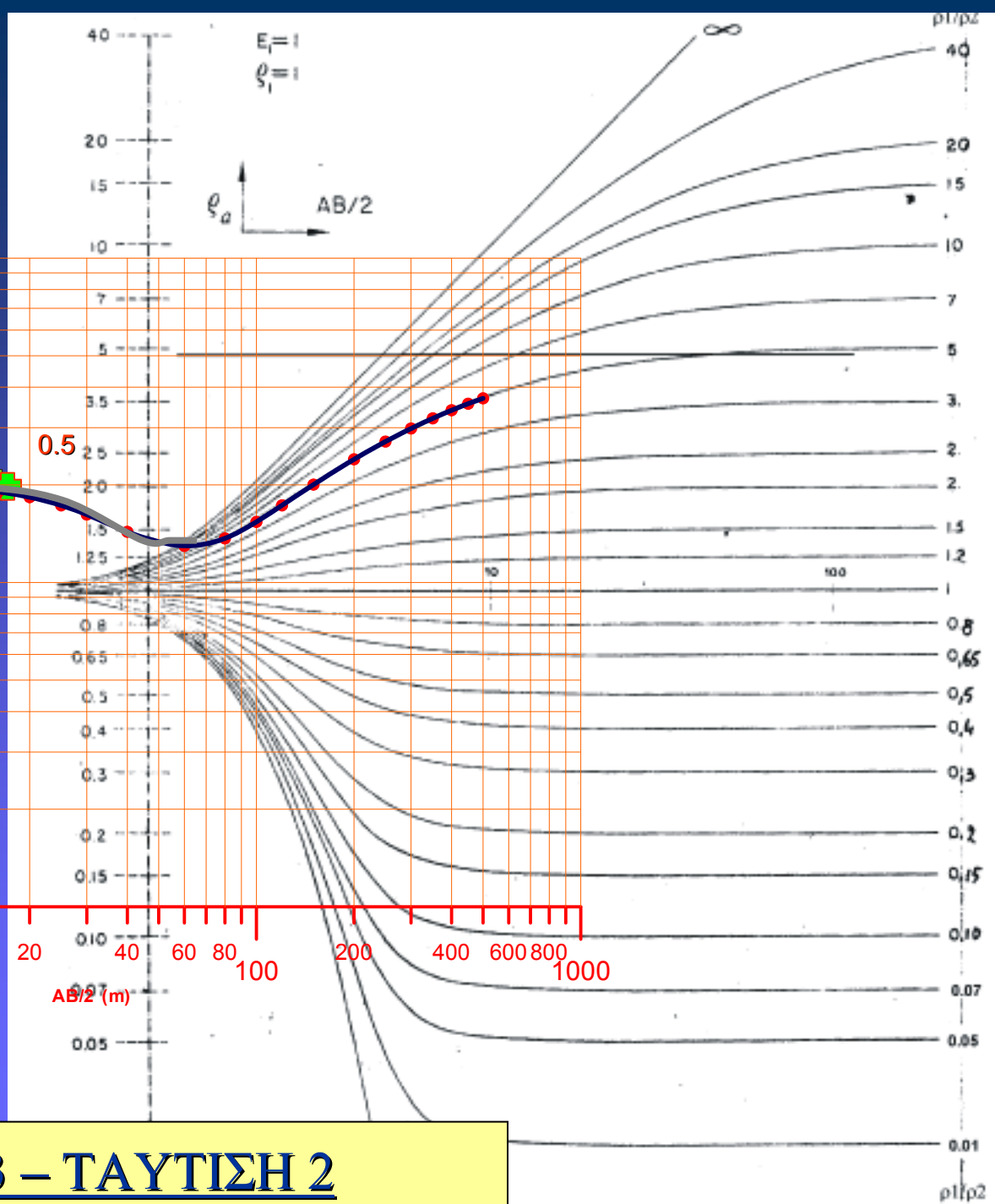
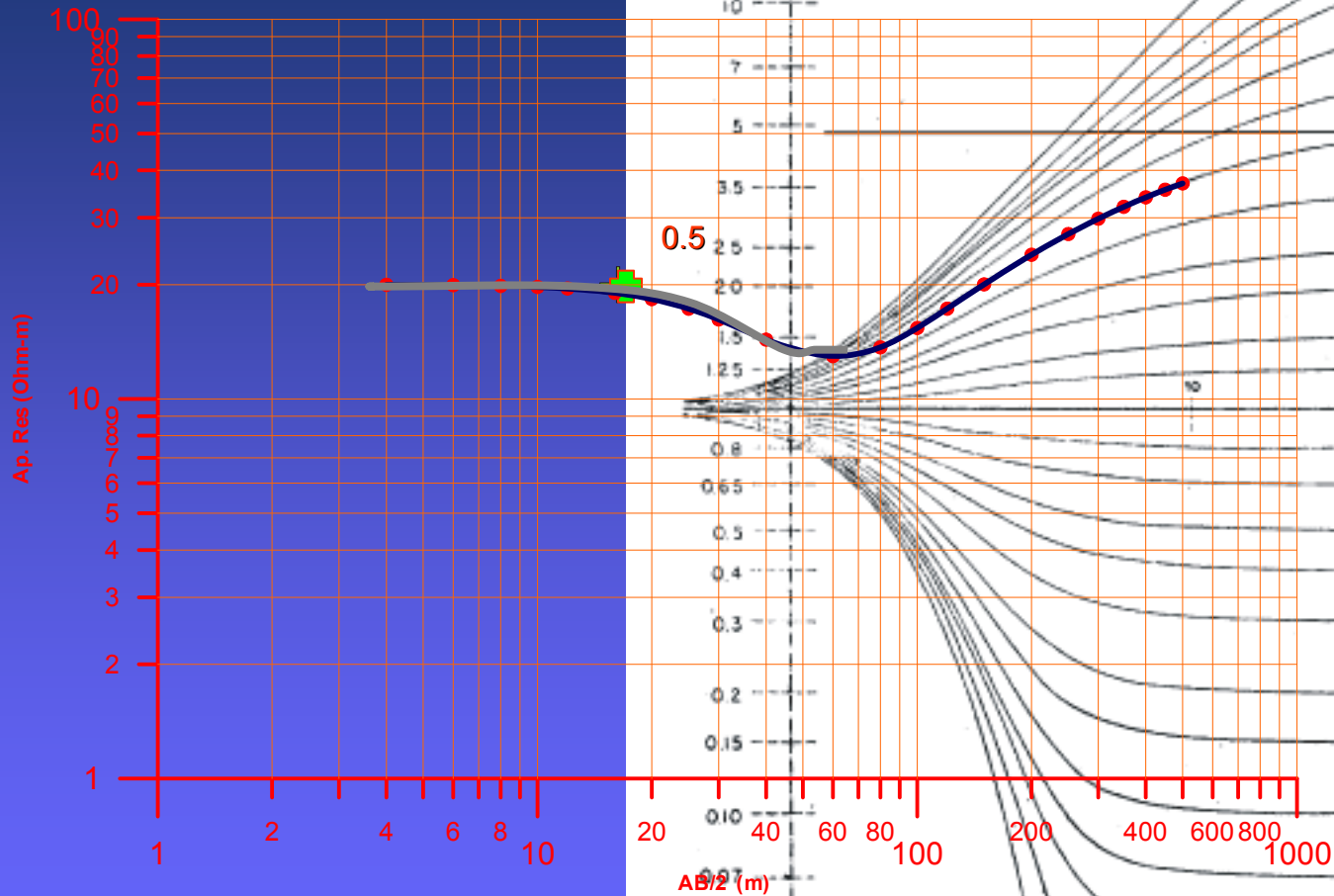
3 ΣΤΡΩΜΑΤΑ → 2 ΤΑΥΤΙΣΕΙΣ



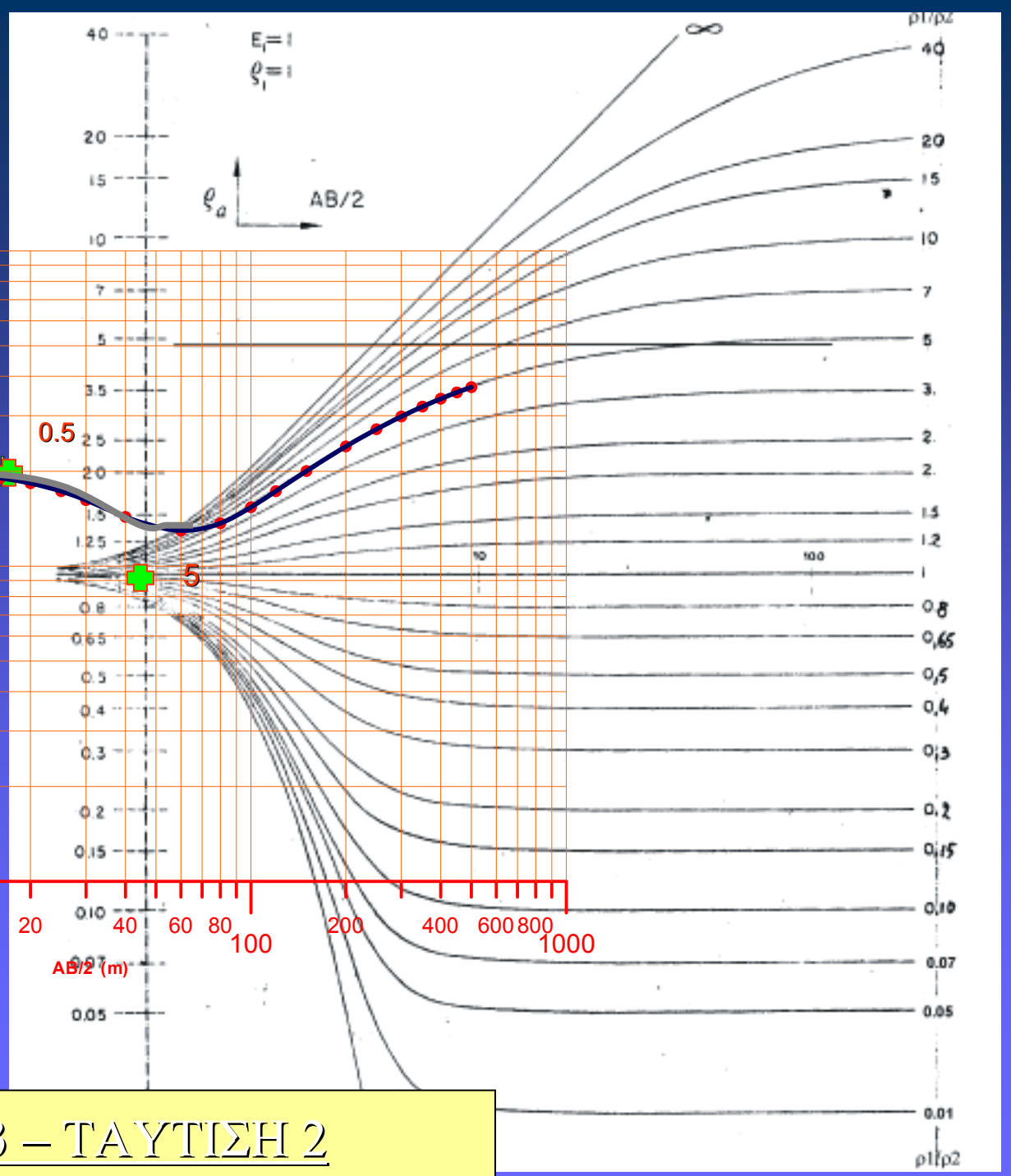
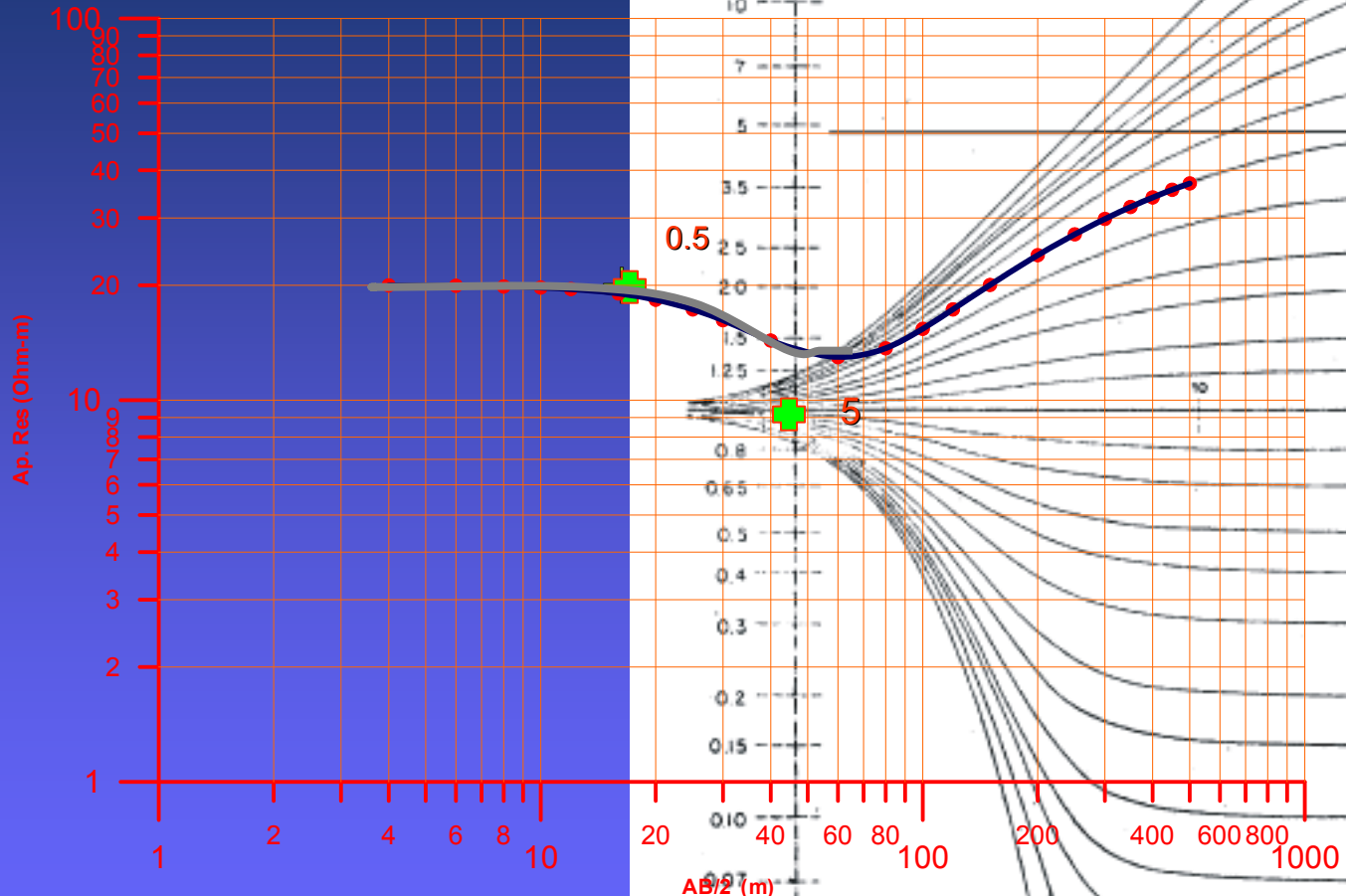
ΕΡΜΗΝΕΙΑ ΒΗΜΑ 3 – ΤΑΥΤΙΣΗ 1



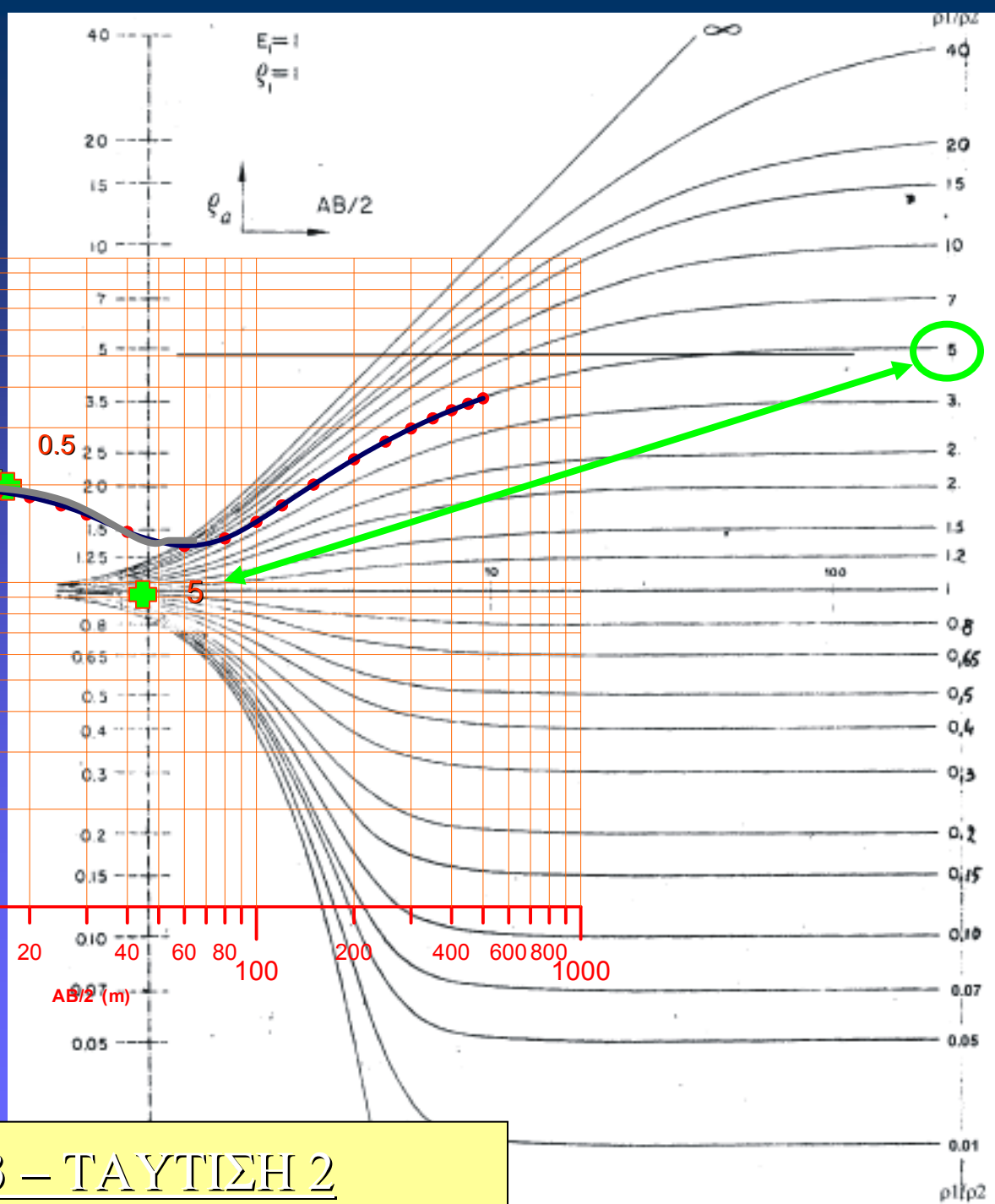
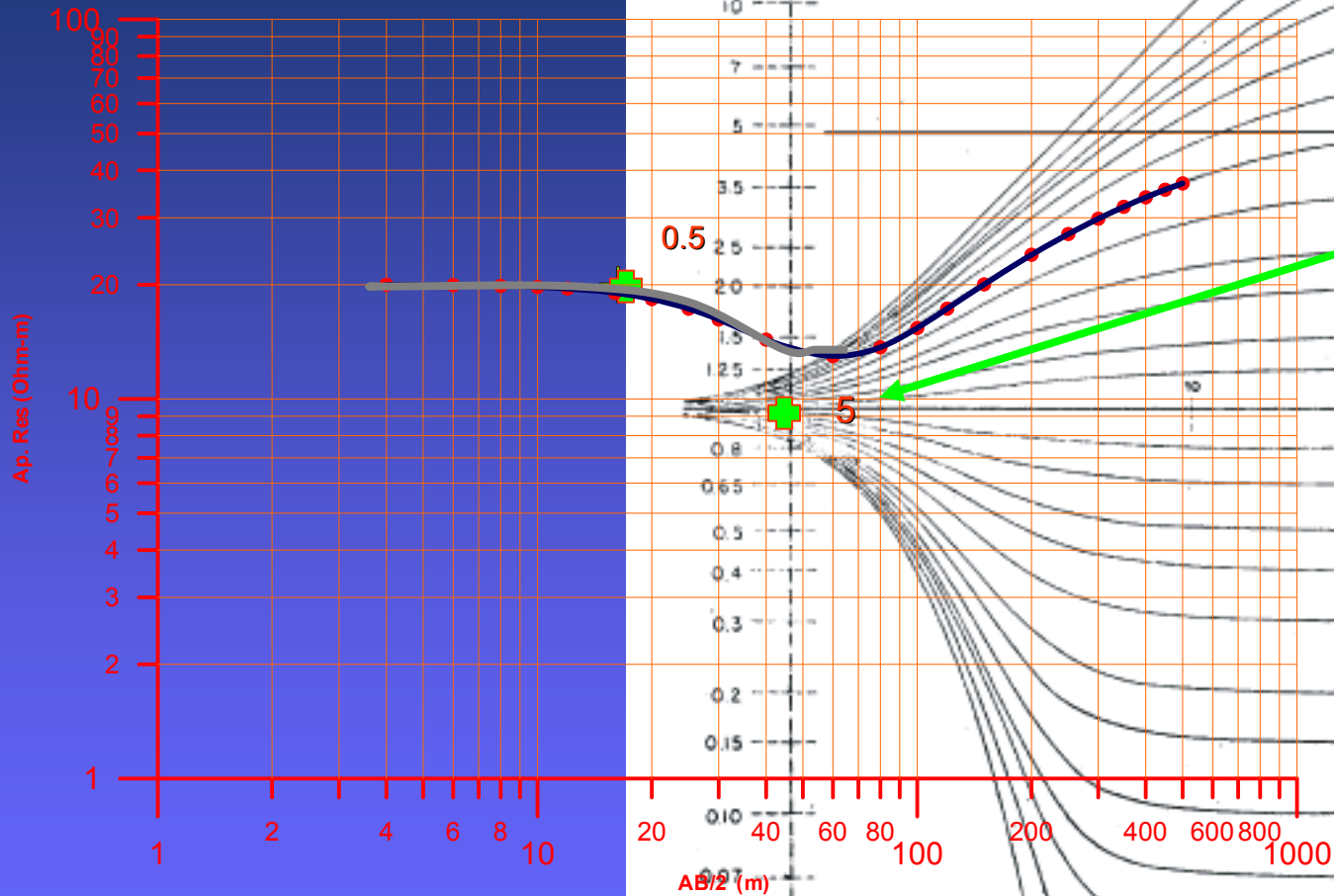
ΕΡΜΗΝΕΙΑ ΒΗΜΑ 3 – ΤΑΥΤΙΣΗ 1



ΕΡΜΗΝΕΙΑ ΒΗΜΑ 3 – ΤΑΥΤΙΣΗ 2



ΕΡΜΗΝΕΙΑ ΒΗΜΑ 3 – ΤΑΥΤΙΣΗ 2



ΕΡΜΗΝΕΙΑ ΒΗΜΑ 3 – ΤΑΥΤΙΣΗ 2

ΕΡΜΗΝΕΙΑ ΒΗΜΑ 4

ΥΠΟΛΟΓΙΣΜΟΣ ΑΝΤΙΣΤΑΣΕΩΝ - ΠΑΧΟΥΣ

