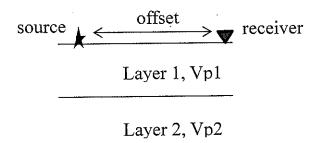
國立中正大學103學年度碩士班招生考試試題

系所別:地球與環境科學系應用地球物理與環境科學 科目:地球物理探勘

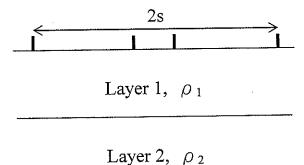
第2節

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- 一、 名詞解釋 (20%)
- 1. Geoid
- 2. Skin depth
- 3. Nyquist frequency
- 4. Curie temperature
- 5. Stacking velocity
- Show the travel time-offset curves of direct, reflected and refracted P-waves for a two-layer earth model shown as the following where Vp1 and Vp2 are the P-wave velocities of the layer 1 and 2, and Vp2 > Vp1. (20%)



- What are the free-air and Bouguer corrections? What are the free-air and Bouguer anomalies? What are the implications of the free-air and Bouguer anomalies? (20%)
- M > A two-layer earth model shown as the following where ρ_1 and ρ_2 are the resistivities of the layer 1 and 2, doing a direct-current resistivity exploration, show the apparent resistivity (ρ_a)-current electrode separation (s) curves for $\rho_1 > \rho_2$ and $\rho_1 < \rho_2$. (20%)



 \pm . What events can you find in the following shallow seismic shot gather, estimate event's velocities and describe why they are ? (20%)

第 2 節

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