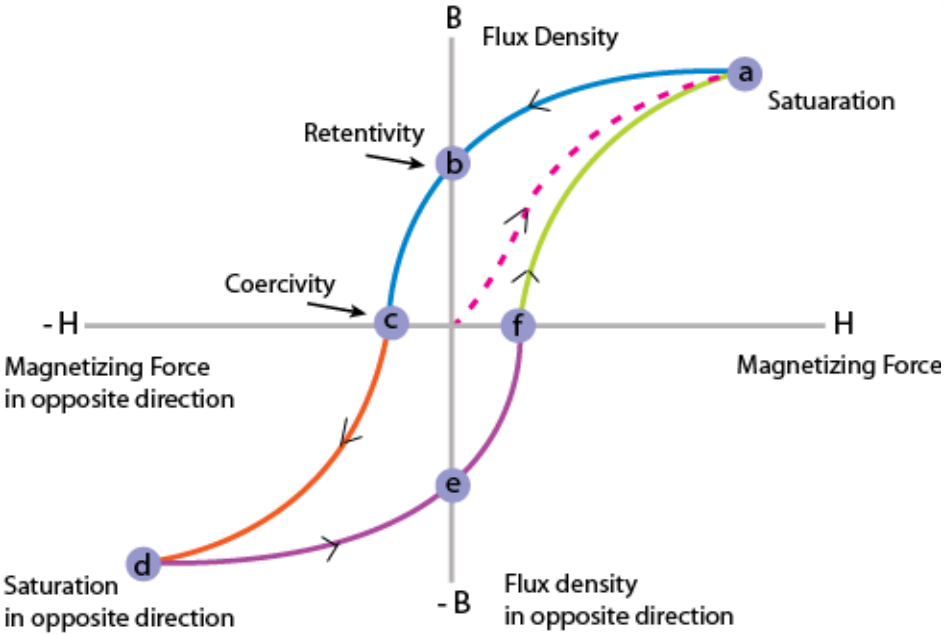
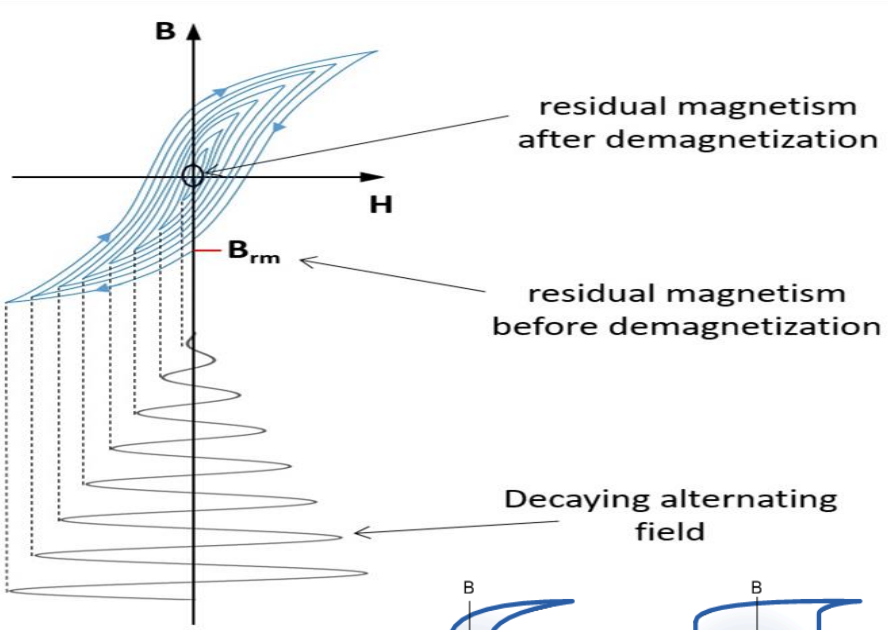
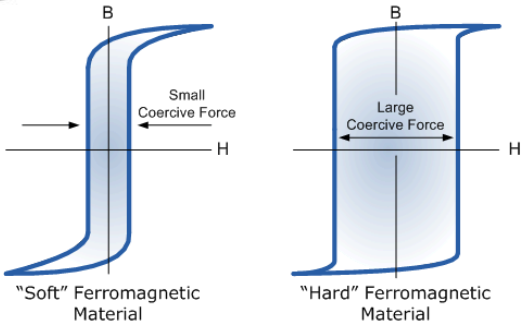
Alternating Field Demagnetization

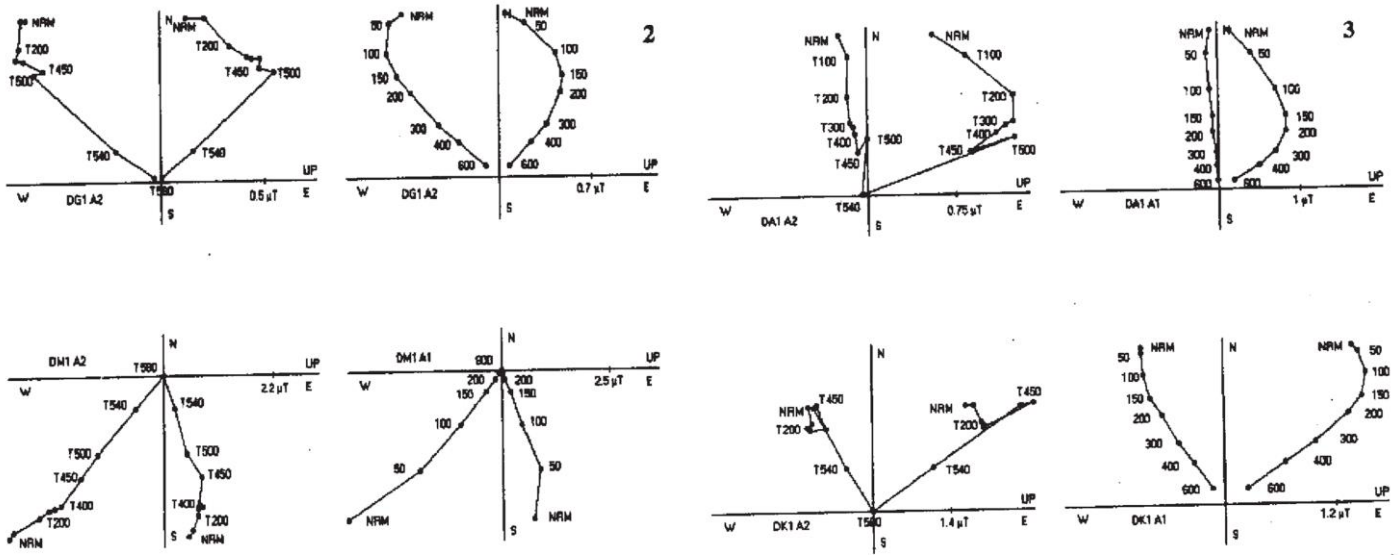






- Magnetic Coercivity: Field Strength / Resistance to demagnetization. (units = Oersted)
- 1 Oe = 10^{-4} T

Alternating Field Demagnetization



- Zijderveld Plots
  - Curved Plot
- Vector Migration Plots

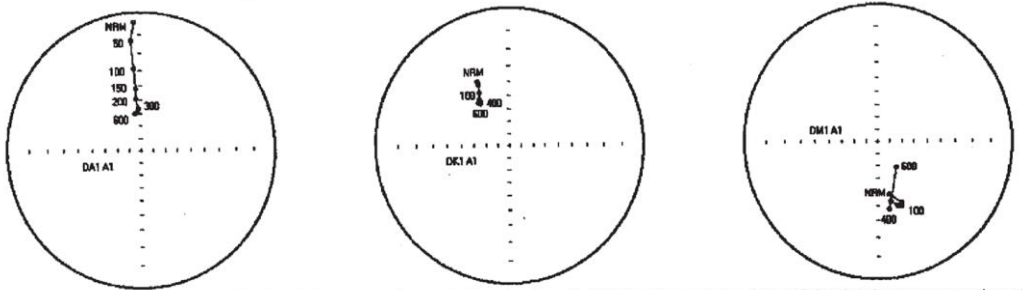


Fig. 5. Vector migration plots showing behaviour of the vectors on demagnetization using alternating field for dyke specimens. Open and closed circles represent negative and positive inclinations respectively.

- ❖ AFD cleaning: More efficient, reliable.
- ❖ AFD plots: Stable over 200 - 600 Oe.
- ❖ More stable than other Deccan Traps.
- ❖ Indicate high coercivity.

Discussion Continued…

- Most dykes are normally magnetized and show negative inclinations.
- Country flows (Basalts): No stable directions = Spectra of coercivity overlap completely.
- Possibilities:
  - Dykes might be post-Trappean
  - Normally magnetized dykes generated in younger Deccan Volcanism, Reversely magnetised dyke are even more younger.