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Cooling histories obtained by iteratively varying the initially assumed cooling history. The family of curves represents the total number of possible cooling paths to reproduce the laboratory obtained age spectrum.

Fig. 5.2. (a) Arrhenius plot for sample LK176; linear portion at initial low temperatures corresponds to the activation energy and $\log(D_0/r_0^2)$ values used in the model (b) $\log(r/r_0)$ plot t_0 estimate the diffusion parameters e.g. number of domains, volumes and sizes. (c) Laboratory obtained and modeled spectra corresponding to different cooling histories. (d) Cooling histories obtained by iteratively varying the initially assumed cooling history. The family of curves represents the total number of possible cooling paths to reproduce the laboratory obtained age spectrum.

Fig. 5.3. Age spectra of Shyok Volcanics plotted together to show the consistency in their pattern

Fig. 5.4. Cartoon diagram showing the evolution of the southern margin of the Asian plate.

Fig. 6.1. Cartoon diagram showing the evolution of India-Asia collision zone with time.