

**Figure 4.1** Plotting compositions in ternary diagrams. Grid lines are at 10% intervals.

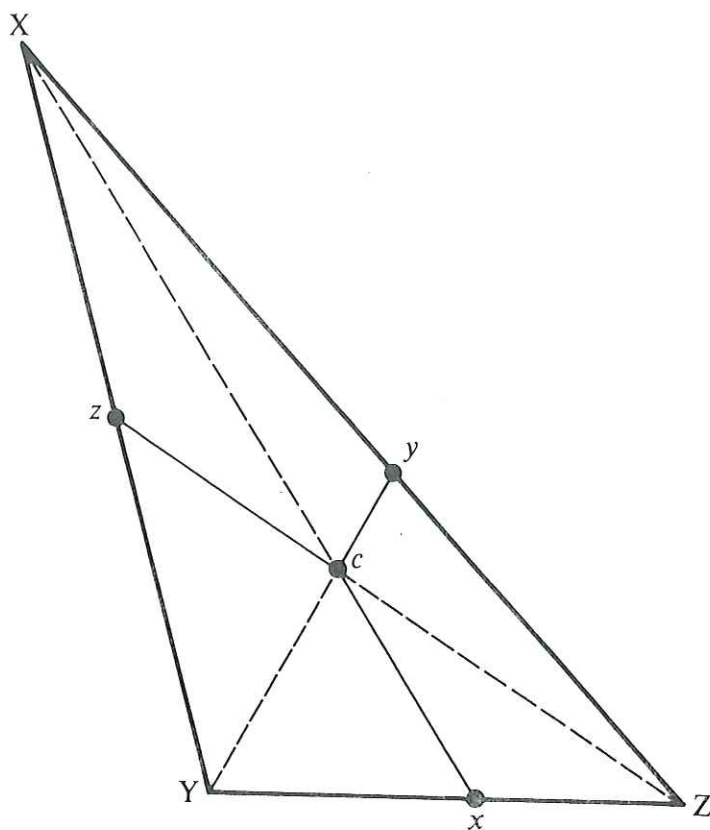
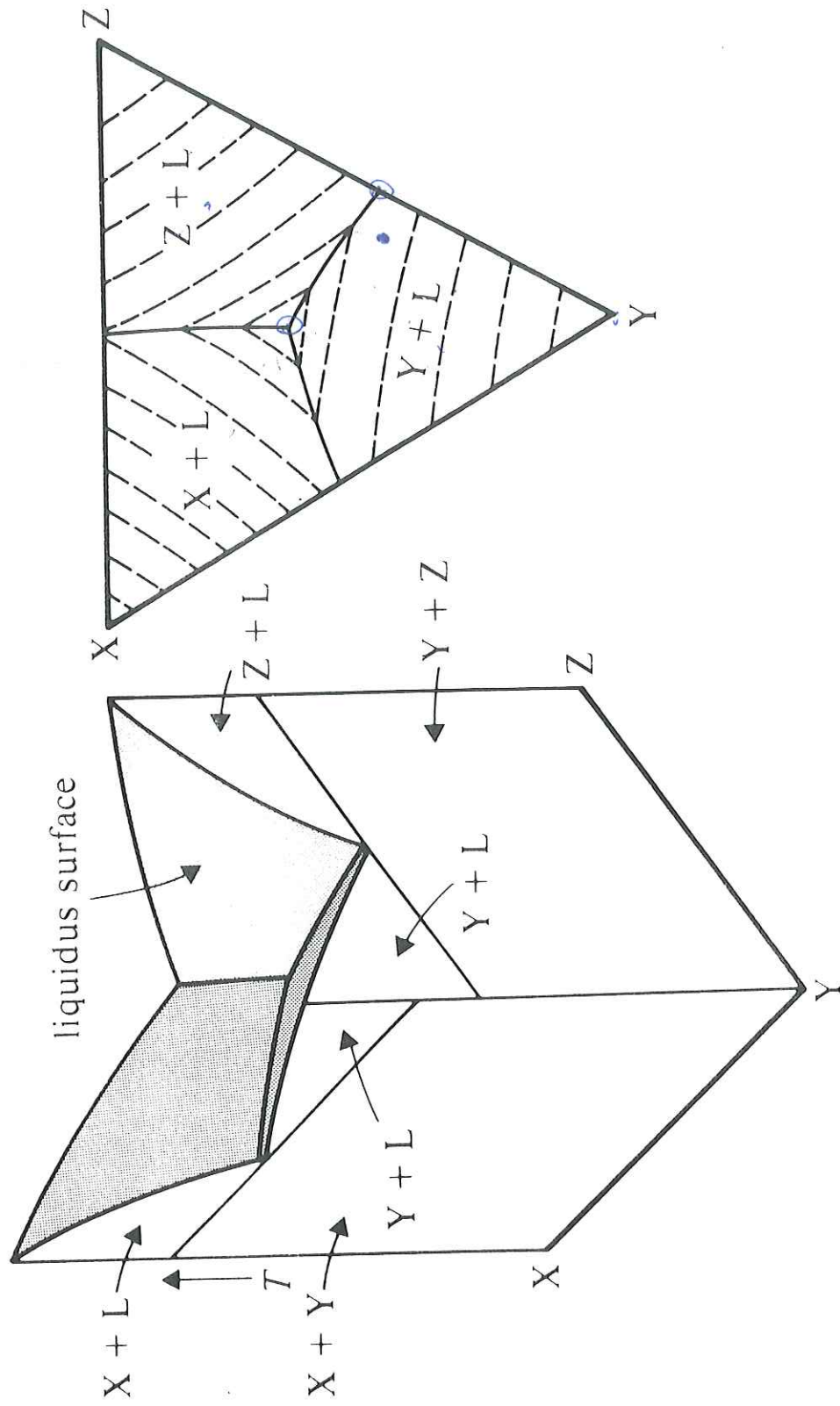
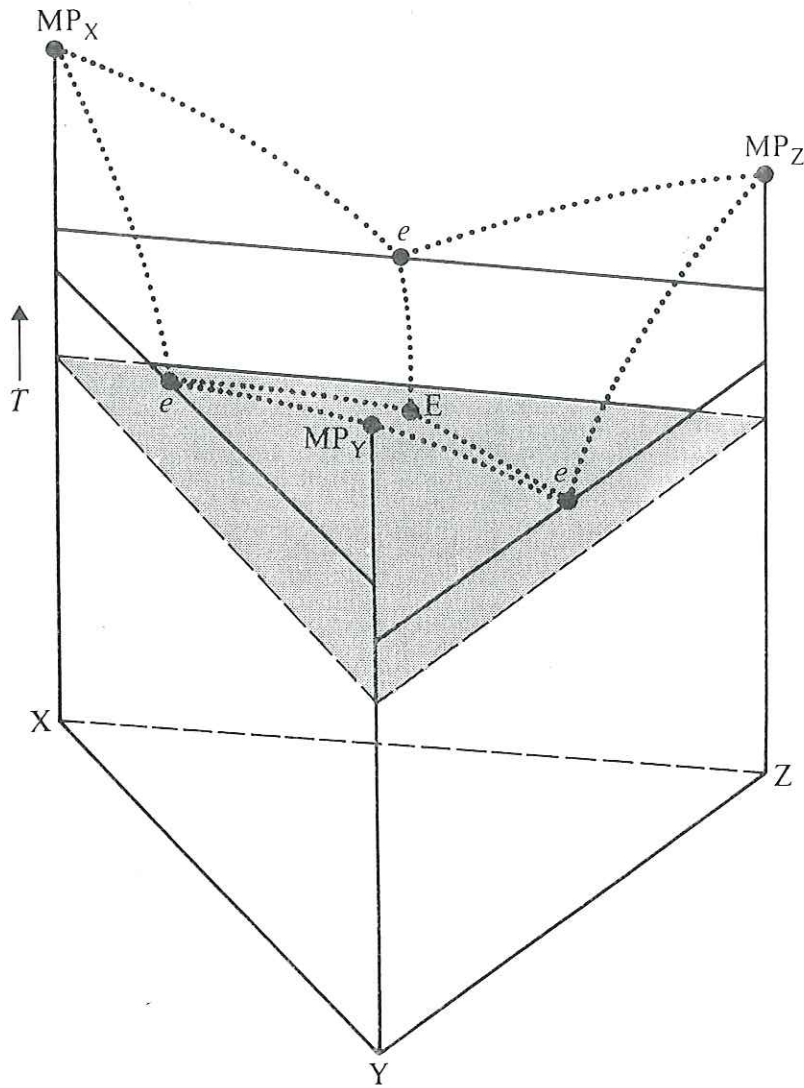


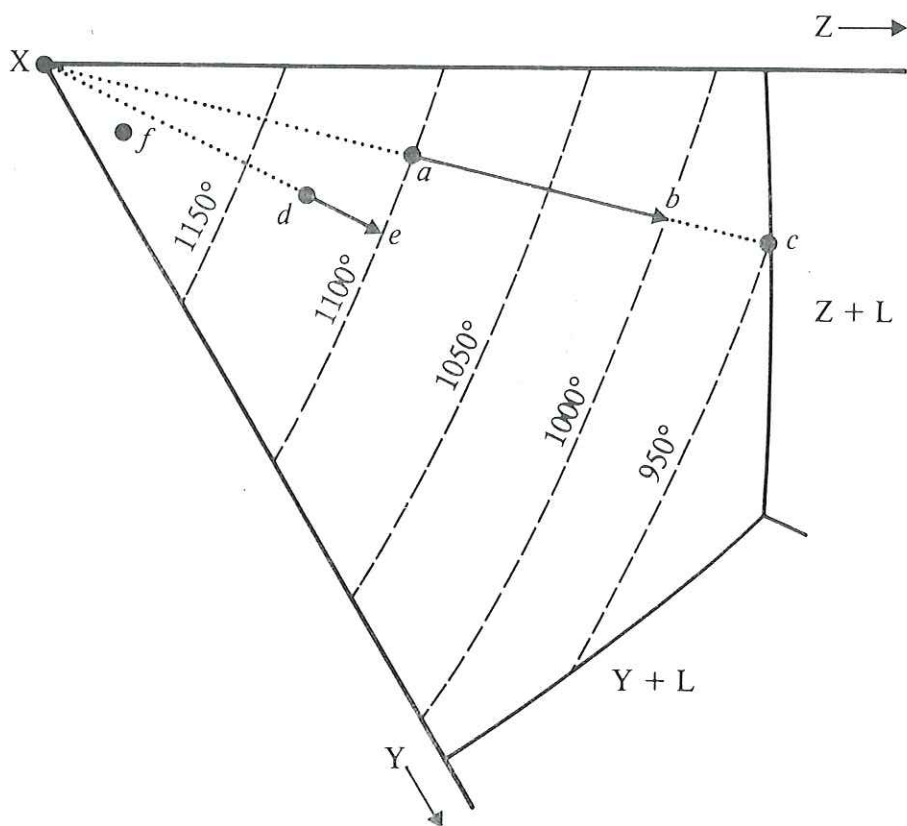
Figure 4.2 Plotting a ternary composition without the use of a grid.



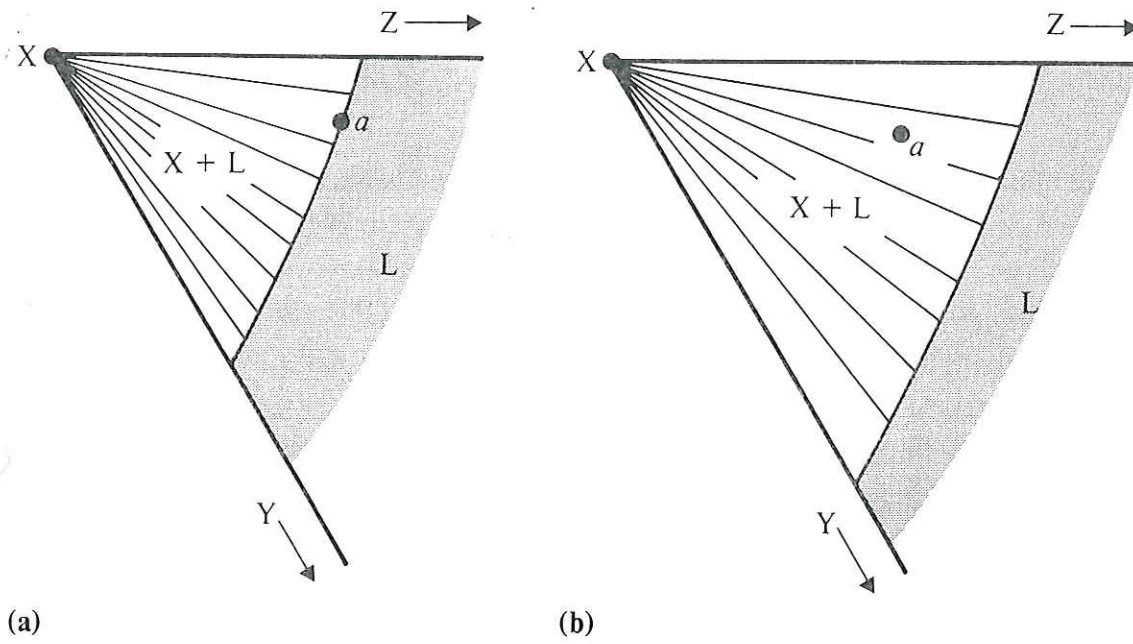
**Figure 4.3** Perspective view of ternary  $T-X$  prism (left) and liquidus projection with thermal contours (right).



**Figure 4.4** Solidus of the ternary  $T-X$  prism of Figure 4.3. Melting points of pure components –  $MP$ ; binary eutectics –  $e$ ; ternary eutectic –  $E$ . Outline of the liquidus surface shown by dotted line; shaded area is upper surface of  $X + Y + Z$  sub-solidus volume.



**Figure 4.5** Crystallisation paths in a primary phase field (cf. X + L field of Fig 4.3)



**Figure 4.6** Isothermal sections for the primary phase field shown in Figure 4.5.