

## CAPTIONS OF FIGURES

- Fig. 1.1 Solubility of KBr and NaCl as a function of temperature.
- Fig. 1.2 Solubility versus temperature for various saturation conditions.
- Fig. 1.3 Method of production of seed crystals.
- Fig. 1.4 Growing of large single crystals using seed crystal with variation of solubility by evaporation or by change of temperature.
- Fig. 1.5 Basic principles of pulling method.
- Fig. 1.6 Liquid encapsulation Czochralski method for growing volatile compounds.
- Fig. 3.1 A few of the growth crystals of  $\text{CaSO}_3$  in silica gel (white bar indicates 5 mm in length).
- Fig. 3.2 X-ray oscillation photograph of  $\text{CaSO}_3$  crystal showing single crystallinity.
- Fig. 3.3  $\text{CaSO}_3$  spherulites growing in  $\text{Na}_2\text{SO}_3$  incorporated gel.
- Fig. 3.4  $\text{CaSO}_3$  crystals growing in  $\text{CaCl}_2$  incorporated gel.
- Fig. 3.5 Schematic diagram of  $\text{CaSO}_3$  crystal growth after fifteen days of growth, indicating precipitate, spherulites and dendrites.
- Fig. 3.6 Schematic diagram of  $\text{CaSO}_3$  crystal growth after two months of growth indicating the complete dissolution and conversion of precipitate, spherulites and dendrites into single crystals.
- Fig. 3.7 Schematic diagram of  $\text{CaSO}_3$  crystal growth in U-tube, showing the formation of single crystals near the limb containing  $\text{Na}_2\text{SO}_3$ .
- Fig. 4.1 Crystals grown at three different specific gravities (a) 1.04, (b) 1.03 and (c) 1.02.
- Fig. 4.2 Number of crystals versus specific gravity of sodium silicate solution.

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