## dilational (dilatational) transition

A transition in which the crystal structure is dilated (or compressed) along one (or more) crystallographic direction(s) while the symmetry about that direction is retained. Examples:

- 1. The transition of a CsCl-type structure to a rock salt structure in which dilation occurs along the three-fold axis.
- 2. The transition at  $T_{\rm D}$  in quenched NiS in which volume expansion occurs without change of symmetry on going from a metallic state  $(T > T_{\rm D})$  to a semiconducting state  $(T < T_{\rm D})$ .

## Source:

PAC, 1994, 66, 577 (Definitions of terms relating to phase transitions of the solid state (IUPAC Recommendations 1994)) on page 581