peritectoid reaction

**Synonym:** metatectoid reaction

An isothermal, reversible reaction in the solid state, that, on cooling of a binary, ternary, ..., n system, results in one, two, ... \((n - 1)\) new solid phases. For example, in a binary system containing two solids \(\alpha'\) and \(\alpha''\)

\[
\alpha' + \alpha'' \rightarrow \beta
\]

Synonymous with metatectoid reaction.

**Source:**
PAC, 1994, 66, 577 (*Definitions of terms relating to phase transitions of the solid state (IUPAC Recommendations 1994)*) on page 588