

Quasi-isothermal process

[@wikipedia](#)

Thermodynamic process in which the **temperature** $T(\mathbf{r})$ is varying in space but its variation in time is much slower than other **dynamic processes** so that **temperature** can be considered as constant at any **spatial location** $\mathbf{r}$:

$$(1) \quad T(\mathbf{r}, t) = T(\mathbf{r}) \Leftrightarrow \frac{\partial T}{\partial t} = 0$$

In specific case when the **temperature** $T(\mathbf{r})$ is not varying in space: $T(\mathbf{r}) = T = \text{const}$ the **Quasi-isothermal process** is called **Isothermal**.

See also

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[[Isothermal process](#)]