



# **The Diffuse Interface Approach in Materials Science: Thermodynamic Concepts and Applications of Phase-Field Models (Lecture Notes in Physics Monographs)**

*Heike Emmerich*

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Many inhomogeneous systems involve domains of well-defined phases separated by a distinct interface. If they are driven out of equilibrium one phase will grow at the cost of the other. Examples are phase separation by spinodal decomposition or nucleation and subsequent growth of the nucleus in the nourishing phase [139]. Another example which has often been discussed as a paradigmatic problem is that of dendritic solidification [29, 64, 79, 199]. The phenomenological description of these phenomena involves the definition of a precisely located interfacial surface on which boundary conditions are imposed. One of those boundary conditions typically yields a normal velocity at which the interface is moving. This is the so-called sharp interface approach, adopted both in analytical and numerical studies for a variety of contexts involving a moving boundary. The origin of such a description is often transparent, being obtained by symmetry arguments and common sense.

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