## The Numerical Solution of the Phase Field Equations Using

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An adaptive moving mesh method is developed for the numerical solution of the phasefield equations. Distinguished limits of these equations include the classical Stefan model, its modification to include surface tension and surface kinetics, and the Cahn-Allen model of motion by mean curvature. The moving mesh method is based on a variational formulation and the governing equations are approximated using a moving finite element method. We will show how the mesh should be clustered to accuratly follow solution interfaces. Numerical results will be given for a planar travelling wave example and anisotropic crystal growth.