

GRAIN BOUNDARIES: PHASE TRANSITIONS AND CRITICAL PHENOMENA

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ABSTRACT

Recent achievements in the investigation of grain boundary phase transitions are reviewed and results of experiments on the grain boundary roughening transition, the "special grain boundary-random grain boundary" phase transition, the prewetting and the premelting phase transition on grain boundaries are presented. Various types of grain boundary phase diagrams are constructed. The directions of possible further progress in that area are discussed.

1. INTRODUCTION

The problem of phase transitions on grain boundaries (GBs) always attracted great attention of specialists in materials science. Such interest has two main sources. Firstly, the progress in research of free surfaces stimulates analogous investigations on grain boundaries. Phase transitions on surfaces of solids are well-established and that area is now under intensive investigation [1,2]. Secondly, the problem of grain boundary phase transitions (GBPTs) is of a great practical importance, because in many cases GBs define the mechanical, electrical and magnetical properties of a polycrystal. Excellent review papers of Cahn [3] and Rottman [4] illustrate such interest. In the paper of Rottman [4], published in 1988, one can find a transparent classification of possible types of GBPTs as well as the critical review of experimental data known to that date. So in the present contribution we will mainly emphasize the progress in GBPT investigations achieved in the last four years.

2. GB MELTING

In a number of works where the molecular dynamics technique was employed for modelling of high temperature behavior of GBs (see [4] for review) it was found that GBs melt below the bulk melting point. For a quantitative characterization of a thermal disorder the order parameter is usually employed [5]:

$$\rho_j(\mathbf{k}) = \frac{1}{N_j} \sum_i \langle \text{Re}\{\exp(i\mathbf{k}r_{ij})\} \rangle \quad (1)$$

Advances In Phase Transitions And Disorders Phenomena

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