

Phenomenological model of relaxor behavior

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Abstract

© 2016, Allerton Press, Inc. A phenomenological model is proposed for describing the behavior of ferroelectrics with the diffuse phase transition near the permittivity maximum in the low-temperature phase. The behavior in this temperature range is shown to be related to the dynamics of formation of polarized state regions near defects with localized charges. The delay in the transition to the uniformly polarized state in the low-temperature phase is discussed.

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