

POLARIZATION GRADIENT IN ELASTIC DIELECTRICS%0A

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By inclusion of the polarization gradient in the stored energy function of elastic dielectrics, the classical theory of piezoelectricity is extended to accommodate an electro-mechanical interaction in centrosymmetric (including isotropic) materials and a surface energy of deformation and polarization.
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When the contribution of the polarization gradient to the stored energy is taken into account, in the theory of elastic dielectrics, there is a small coupling between electromagnetic and elastic
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Combined polarization field gradient and strain field

By including the polarization, the polarization gradient, the strain and the strain gradient in the stored energy function of elastic flexoelectric materials and using a generalized Toupin variational formulation for dielectrics, we have formulated general governing equations for elastic flexoelectric materials. This model consists of four constitutive relations, each of them defining some
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The internal energy of elastic dielectrics is assumed to depend on polarization gradients in addition to deformation gradients and polarization. The field equation, jump conditions and
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Polarization Gradient in Elastic Dielectrics Course held

Polarization Gradient in Elastic Dielectrics: Course held at the Department for Mechanics of Deformable Bodies, July 1970: R.D. Mindlin: 9783211810873: Books - Amazon.ca
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A flexoelectric theory with rotation gradient effects for

(direct flexoelectricity), or the coupling between the induced elastic stress and the polarization gradient (inverse flexoelectricity) [1, 2]. Different from piezoelectricity which is inherent only in noncentrosymmetric materials, flexoelectricity has no symmetry constraint since inversion symmetry can be broken by strain gradients [3]. In the past decade, flexoelectricity has stimulated a
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Elastic dielectrics with polarization gradient ScienceDirect

The internal energy of elastic dielectrics is assumed to depend on polarization gradients in addition to deformation gradients and polarization. The field equation, jump conditions and constitutive equations are obtained by a variational principle.
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Electro elastic elds of a plane thermal inclusion in

Electro-elastic elds of a plane thermal inclusion in isotropic dielectrics with polarization gradient J. P. NOWACKI The Polish-Japanese Institute of Information Technology, ul. Koszykowa 86, 02-008 Warsaw, Poland e-mail: nowacki@pjwstk.edu.pl Coupled electroelastic elds excited by a thermal inclusion in an isotropic dielectric medium with polarization gradient are studied in the
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Electric Displacement Gradients in the Elastic Dielectric

The linearized or small field version of this theory differs from Mindlin's theory of the elastic dielectric with polarization gradient arguments in the energy density. From an application of the linear theory to the determination of the response of a particular system with non-piezoelectric cubic material symmetry, it is concluded that to satisfy all the boundary conditions there can be no

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Combined polarization field gradient and strain field

This model is based on a stored elastic energy density function which depends on four independent variables: the polarization field and the polarization field gradient as well as the strain field and the strain field gradient. A generalized Toupin variational approach is utilized to find the governing equations (constitutive relations, equilibrium equations and boundary conditions) of the

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A flexoelectric theory with rotation gradient effects for

A flexoelectric theory with rotation gradient effects for elastic dielectrics Article (PDF Available) in Modelling and Simulation in Materials Science and Engineering 24(1):-150009 December

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Polarization Gradient in Elastic Dielectrics Course held

Polarization Gradient in Elastic Dielectrics Course held at the Department for Mechanics of Deformable Bodies, July 1970 Authors: Mindlin , R.D.

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In: Polarization Gradient in Elastic Dielectrics. International Centre for Mechanical Sciences (Courses and Lectures), vol 24. Springer, Vienna International Centre for Mechanical Sciences (Courses and Lectures), vol 24.

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