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Fracture Mechanics Of

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Historically, intensive research on piezoelectric fracture mechanics started in the 1980s motivated by failure in piezoelectric devices. Using mostly Vickers-indentation experiments, the apparent anisotropy in fracture toughness

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of poled piezoelectric ceramics and its dependence on applied electric field were observed [5] , [6] , [7] .

*Fracture mechanics of
piezoelectric materials - Where
are ...*

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It is a specialized monograph on fracture mechanics of piezoelectric materials. Fracture Mechanics of Piezoelectric Materials is strongly recommended for purchase by scientific libraries. It is also highly recommendable to graduate

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students, professional researchers, and engineers from applied mechanics, material sciences, applied mathematics, and physics, who are working on and interested in this research subject.

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Fracture Mechanics of Piezoelectric Materials | Applied ...

@misc{etde_20270822, title = {Fracture mechanics of piezoelectric materials} author = {Qin, Q -H} abstractNote = {A comprehensive treatment of crack problems arising in

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piezoelectric materials under coupled thermal, mechanical and electric loads, this volume summarizes the current state of practice and presents the most recent research outcomes. Emphasis is placed on fundamental concepts, the

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development of mathematical
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*Fracture mechanics of
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APPLIED MECHANICS REVIEWS. A comprehensive treatment of crack problems arising in piezoelectric materials under coupled thermal, mechanical and electric loads, this volume summarizes the current state of practice and presents the most

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recent research outcomes.

Emphasis is placed on fundamental concepts, the development of mathematical models and their computational approaches, while the mathematical models used are stated in a straightforward and

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self-contained manner to aid accessibility.

Fracture Mechanics of Piezoelectric Materials

Many researchers have studied the behavior of these materials in the presence of defects;

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fundamentals of piezoelectric
fracture mechanics can be found
in 51,52,53,54 .

*Fracture Mechanics of
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Are ...*

Abstract. The concepts of linear

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elastic fracture mechanics, generalized to treat piezoelectric effects, are employed to study the influence of the electrical fields on the fracture behavior of piezoelectric materials. The method of distributed dislocations and electric dipoles, already

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existing in the literature, is used to calculate the electro-elastic fields and the energy-release rate for a finite crack embedded in an infinite piezoelectric medium which is subjected to both mechanical ...

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*Linear electro-elastic fracture
mechanics of piezoelectric ...*

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Hua Qin Publisher: WIT Press
(ISBN: 1-85312-856-2, 2001)
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Piezoelectric and Ferroelectric
Solids presents a systematic and
comprehensive coverage of the
fracture mechanics of
piezoelectric/ferroelectric
materials, which includes the
theoretical analysis, numerical
computations and experimental

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observations. The main emphasis is placed on the mechanics description of various crack problems such static, dynamic and interface fractures as well as the physical explanations for the mechanism of electrically induced fracture.

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Piezoelectric and Ferroelectric ...*

The experimental results also confirmed that there exist mechanical- and electrical- fracture toughness for PZT-4 ceramics and both are material

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Materials. The mechanically- and electrically- critical energy release rates are, respectively, $8.7(\pm 1.1)$ and $223.7(\pm 45.5)$ N/m

FRACTURE OF PIEZOELECTRIC MATERIALS - CORE

piezoelectric materials. It is

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focused on fracture mechanics studies of piezoelectric bimetals and the theoretical modeling of interface cracks, as well as computational methods for analysis. Dynamic fracture problems of piezoelectric materials are not included here,

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and only steady state problems
for moving interface cracks will
be reviewed in addi-

*Interface cracks in piezoelectric
materials*

This model is first proposed by
Dugdale in analyzing the elastic

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fracture, then extended by Gao et al. to piezoelectric fracture. The full anisotropic piezoelectric fracture based on electric saturation model is later presented by Wang . Other piezoelectric fracture problems based on the electrical saturation

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model can be found such as Ru ,
and Wang and Zhang ,
Generally, the piezoelectric
fracture model considering
electrical saturation gives better
agreement with the experimental
...

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*Fracture of thermoelectric
materials: An electrical and ...*

Piezoelectric ceramics and composites are widely used in sensors and actuators in the field of smart materials and structures due to their prominent electromechanical coupling

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Theoretical Study on Electroelastic Fracture Mechanics of ...

The fracture mechanics approach

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for crack-like defects in piezoelectric materials reveals coupled electrical and mechanical field singularities. Effective numerical methods are needed to evaluate fracture behavior of cracks in arbitrary piezoelectric structures subjected to combined

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*A Cell-Based Smoothed XFEM for
Fracture in Piezoelectric ...*

Mode I and mixed mode fracture tests were performed on PZT-4 piezoelectric ceramics to verify the validity of the mechanical

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strain energy release rate as a fracture criterion. Experimental results indicated that crack extension could be aided or impeded by an electric field, depending on the field direction.

Fracture Criteria for Piezoelectric

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- self-contained and well
illustrated - complete and
comprehensive derivation of
mechanical/mathematical results
with emphasis on issues of
practical importance - combines
classical subjects of fracture

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mechanics with modern topics
such as microheterogeneous
materials, piezoelectric materials,
thin films, damage - mechanically
and mathematically clear and
complete derivations of results

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