

COMPUTATIONAL FRACTURE MECHANICS OF HETEROGENEOUS MATERIALS AND STRUCTURES

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ABSTRACT

Heterogeneous materials such as composite materials and functionally graded materials (FGM) are important materials in aerospace industries. Heterogeneous structures are used in the microelectronic systems such as electronic packaging and MEMS. The fracture mechanics for homogeneous materials and structures is well established. On the other hand, more extensive studies have to be done to establish the fracture mechanics for heterogeneous materials and structures. In this minisymposium, papers are solicited in the following fields:

- (1) Computational methods for calculating fracture mechanics parameters for heterogeneous materials and structures,
- (2) Application of computational fracture mechanics to the reliability studies of heterogeneous materials and structures,
- (3) Any other fields related to computational fracture mechanics of heterogeneous materials and structures.

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