

Microstructural Design Of Toughened Ceramics

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The fracture toughness of ceramics can be improved by the incorporation of a variety of discontinuous, elastic reinforcing phases that generate a crack bridging zone. Recent models of toughening by crack bridging processes are discussed and used to describe the behavior observed in whisker reinforced ceramics.

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The ceramic composite microstructure (Figs. 7c and 8) was constituted by a substructure made of small particles (< 10 μ m) and dense zones of larger dimensions (largest dimension up to 40 μ m). This microstructure was more open in zones close to the laser channels, which had very irregular boundaries (Figs. 7b and 8 b).

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