

## Microstructural Design Of Toughened Ceramics

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### Microstructural Design of Toughened Ceramics

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  $\mu$ m) and dense zones of larger dimensions (largest dimension up to 40  $\mu$ 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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For MgO-PSZ ceramics, the general approach to maximising the transformation toughening increment has been to set  $V_f$  at about 40% and the pre-cipitate size at  $\sim 0.2/\lambda_m$ , so that transformation can be stress-induced at room temperature and the dimensions of the process zone are thus maximised. The micro-crack toughening increment may be viewed as arising from an increase in the fracture surface in the material adjacent to, but not in front of, the crack tip.

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