



Correspondence

Response to: Comments on “E. Radi, D. Bigoni
and D. Capuani, Effects of pre-stress on crack-tip fields
in elastic, incompressible solids” [International Journal
of Solids and Structures 39 (2002) 3971–3996]

We sincerely thank A.N. Guz for having brought to our attention his large contribution to the topic analyzed by us, of which we were obviously unaware [with the exception mentioned in our footnote (2)].

As far as the initial observations made by A.N. Guz are concerned, we specify that our formulation pertains to small deformations superimposed upon *arbitrary large*, homogeneous initial deformation. The similarity of the localization patterns found by us to real experiments [see for instance Vasko, G.M., Leo, P.H. and Shield T.W., Prediction and observation of crack tip microstructure in shape memory CuAlNi single crystals, J. Mech. Phys. Solids 50 (2002) 1843–1867] points out the physical sense of our results.

Enrico Radi

Dipartimento di Scienze e Metodi dell'Ingegneria

Università di Modena e Reggio Emilia

Viale Allegri 13, 19 42100

Reggio Emilia, Italy

Tel.: +39-522-276603; fax: +39-522-276613

E-mail address: eradi@unimo.it

Davide Bigoni

Dipartimento di Ingegneria Meccanica e Strutturale

Università di Trento

Via Mesiano 77 38050 Povo

Trento, Italy

E-mail address: bigoni@ing.unitn.it

Domenico Capuani

Dipartimento di Ingegneria

Università di Ferrara

Via Saragat 1 44100

Ferrara, Italy

E-mail address: cpd@dns.unife.it