
Corrigendum

B.L. KARIHALOO and K. VISWANATHAN, *J. Mater. Sci.* **20** (1985) 4103.

Author's note:

A recent valuable exchange of notes on a related paper with Professor B.A. Bilby has exposed certain errors in the above paper. The errors arise from the delta-function behaviour of the derivatives of eigenstress $\sigma^*_{ij,j}$ on the boundary $\partial\Omega$ of the elliptical region Ω which we had overlooked in Equation 2 and from the omission of a factor in the boundary condition Equation 4. The following alterations to the paper will correct these errors:

1. Add
$$\int_{\partial\Omega} \sigma^*_{ij}(\boldsymbol{x}')\, G_{im}(\boldsymbol{x}, \boldsymbol{x}')\, n_j(\boldsymbol{x}')\ \mathrm{d}S(\boldsymbol{x}'),$$
where $\mathrm{d}S$ is an element of $\partial\Omega$, to the right hand side of Equation 2.

2. Replace the integral in Equation 20 by
$$\oint_{\Gamma} \sigma^{*\mathrm{II}}_{ij}(\boldsymbol{x}')\, G_{im,j}(\boldsymbol{x}, \boldsymbol{x}')\ \mathrm{d}\Omega(\boldsymbol{x}');$$

3. Replace the first integral in Equation 24 by
$$\xi^m = -\int_{\Omega} \sigma_{ij}[G(\boldsymbol{x}', \boldsymbol{x}'')]\, G_{im,j}(\boldsymbol{x}, \boldsymbol{x}')\ \mathrm{d}\Omega(\boldsymbol{x}'');$$
(note ξ in Equations 23 and 24 should be ξ^m).

4. Replace the right hand side of Equation 19 and of Equation 32 by
$$\overset{1}{\sigma}{}^0_{ij}(\boldsymbol{x})\, n_j(\boldsymbol{x}) + \sum_{\alpha,\beta} \overset{1}{C}{}^{ij}_{\alpha\beta} x_1^{\alpha} x_2^{\beta}$$
where $\overset{1}{\sigma}{}^0_{ij}(\boldsymbol{x})$ and $\overset{1}{C}{}^{ij}_{\alpha\beta}$ are obtained from Equations 17 (and 10) and 21 by replacing λ, μ with λ_1, μ_1, respectively.

5. As a consequence of correction (4), replace σ^0_{ij} and $C^{ij}_{\alpha\beta}$ in Equation 41 by $\overset{1}{\sigma}{}^0_{ij}$ $\overset{1}{C}{}^{ij}_{\alpha\beta}$ respectively and $A^{ij}_{\alpha\beta}$ and $C^{ij}_{\alpha\beta}$ in Equations 42 to 44 by $\overset{1}{A}{}^{ij}_{\alpha\beta}$ and $\overset{1}{C}{}^{ij}_{\alpha\beta}$, respectively. Also, the vertical scale of Figs 2 to 9, inclusive should be altered by multiplying by λ/λ_1.
