## Corrigenda

## Volume 97 (1985), 357-379 and 541-549

'Asymptotic shapes of inflated noncircular elastic rings'
and
'Asymptotic shapes of inflated spheroidal nonlinearly elastic shells'

By STUART S. ANTMAN<br>Department of Mathematics, University of Maryland, College Park, MD 20742, USA<br>and M. CARME CALDERER<br>Department of Mathematics, University of Delaware, Newark, DE 19717, USA

(Received 12 August 1986)
Formulae (2.12) of both papers, giving an expression for the curvature $\bar{\kappa}$, are wrong. To correct them, let $\omega(s)$ be the angle between $\overline{\mathbf{r}}^{\prime}=\bar{\nu} \mathbf{a}+\eta \mathbf{b}$ and $\mathbf{i}$. Then

$$
\begin{equation*}
\tan \omega=\frac{\bar{v} \sin \theta+\eta \cos \theta}{\bar{v} \cos \theta-\eta \sin \theta} \tag{A}
\end{equation*}
$$

$$
\begin{equation*}
\bar{\kappa}=\frac{\omega^{\prime}}{\left(\bar{\nu}^{2}+\eta^{2}\right)^{\frac{1}{2}}}=\frac{\theta^{\prime}}{\left(\bar{\nu}^{2}+\eta^{2}\right)^{\frac{1}{2}}}+\frac{\bar{\nu} \eta^{\prime}-\eta \bar{\nu}^{\prime}}{\left(\bar{\nu}^{2}+\eta^{2}\right)^{\frac{3}{2}}}, \tag{B}
\end{equation*}
$$

whence formulae ( $3 \cdot 2$ ) of both papers imply that

$$
\begin{equation*}
\kappa=\frac{\theta^{\prime}}{\left(\nu^{2}+\epsilon^{2} \eta^{2}\right)^{\frac{1}{2}}}+\frac{\epsilon\left(\nu \eta^{\prime}-\eta \nu^{\prime}\right)}{\left(\nu^{2}+\epsilon^{2} \eta^{2}\right)^{\frac{1}{2}}} . \tag{C}
\end{equation*}
$$

Formula (C) corrects the erroneous expression for $\kappa$ by adding the second term on the right-hand side of (C). Since this term is of order $\epsilon$, the analysis in the remainder of both papers is unaffected by this correction. (The analyses of higher-order terms do not include a study of corrections to the curvature.)

