Errata: Computing the solid angle subtended by a planar figure

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This article [*Opt. Eng.* **33**(12), 4055–4059 (1994)] was published in December 1994. We correct two mathematical expressions.

In the original paper, a negative sign is missing in Eq. (6). The correct expression is

$$\hat{\xi} = \hat{\eta} \times \hat{\zeta} = -\frac{\hat{R}_n \times (\hat{R}_n \times \hat{R}_{n+1})}{|\hat{R}_n \times \hat{R}_{n+1}|}. \quad (1)$$

The same mistake appears in Eq. (16). The correct expression is

$$I_n = 2 \arctan \left[\frac{\frac{\hat{q} \cdot (\hat{R}_n \times \hat{R}_{n+1})}{|\hat{R}_n \times \hat{R}_{n+1}|} \left(\frac{1 - \hat{R}_n \cdot \hat{R}_{n+1}}{1 + \hat{R}_n \cdot \hat{R}_{n+1}} \right)^{1/2}}{1 - \hat{q} \cdot \hat{R}_n + \frac{\hat{q} \cdot [\hat{R}_n \times (\hat{R}_n \times \hat{R}_{n+1})]}{|\hat{R}_n \times \hat{R}_{n+1}|} \left(\frac{1 - \hat{R}_n \cdot \hat{R}_{n+1}}{1 + \hat{R}_n \cdot \hat{R}_{n+1}} \right)^{1/2}} \right]. \quad (2)$$

All the results presented in the original paper are correct. In numerical implementations* the atan2 function should be used for the arctangent.

*<http://en.wikipedia.org/wiki/Atan2>.