Erratum to “Laser Surface-contouring and Spline Data-smoothing for Residual Stress Measurement”

by Michael B. Prime

The author would like to report an error in an equation in a recent paper.¹ Equation (2) in the paper should read

$$\overline{\partial\sigma}(j) = \frac{1}{\sqrt{n}} \sqrt{\sum_{i=1}^n [\partial\sigma(i, j)]^2}.$$

M.B. Prime (prime@lanl.gov), Engineering Sciences and Applications Division, Los Alamos National Laboratory, Los Alamos, NM 87545, USA.

Original manuscript submitted: xxx.

Final manuscript received: xxx.

DOI: 10.1177/0014485104047609

Fortunately, this correct version of the equation was used in all the calculations in the paper, so none of the results change. Note also that the left-axis label of Fig. 5 should refer to $\overline{\partial\sigma}$. To avoid confusion, it is verified that eq (1) in the paper is correct because the square root of the sum of squares can be simplified for the case of the standard deviation of two values.

References

1. Prime, M.B., Sebring, R.J., Edwards, J.M., Hughes, D.J., and Webster, P.J., “Laser Surface-contouring and Spline Data-smoothing for Residual Stress Measurement,” *EXPERIMENTAL MECHANICS*, **44** (2), 176–184 (2004).