J. Cent. South Univ. (2014) 21: 4051
DOI: 10.1007/s11771-014-2394-4

Springer

Erratum to: Mechanical, piezoelectric and some thermal properties of (B3) BP under pressure

S. DAOUD[1], N. BIOUD[2], N. LEBGAA[2]

1. Faculty of Science and Technology, University of Bordj Bou-Arreridj, Bordj Bou-Arreridj 34000, Algeria;
2. Optoelectronics and Compounds Laboratory, Ferhat Abbes University, Setif 19000, Algeria

Erratum to: J. Cent. South Univ. (2014) 21: 58−64
DOI: 10.1007/s11771-014-1915-6

The original version of this article unfortunately contained mistakes.

The Eqs. (6a) and (6b) were incorrect. The corrected equations are given below.

$$C_{\mathrm{a}} = \frac{C_{12}}{C_{44}} \tag{6a}$$

$$B_{\mathrm{O}} = \frac{\left(C_{11} + C_{12}\right)^2}{4C_{44}\left(C_{11} - C_{44}\right)} \tag{6b}$$

The data in Fig. 4 were incorrect. The corrected Fig.4 is shown below, and the description is corrected correspondingly.

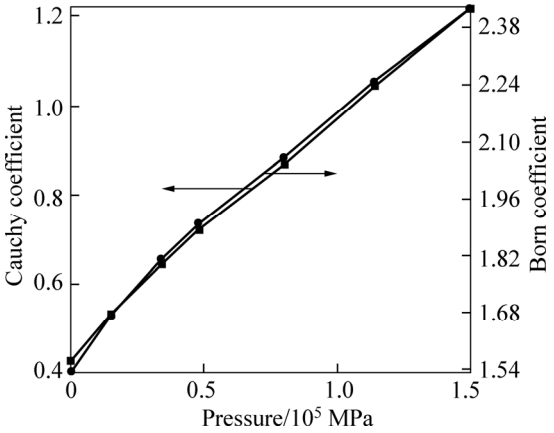

Fig. 4 Cauchy and Born coefficients versus pressure

As shown in Fig. 4, both the Cauchy and Born coefficients increase gradually with the increase of hydrostatic pressure, that the Cauchy coefficient takes the value of 0.43 at P=0, and reaches the value of 1.21 at 1.50×10^5 MPa, and the Born coefficient takes the value of 1.53 at P=0, and reaches the value of 2.43 at 1.50×10^5 MPa.

The online version of the original article can be found at
http://dx.doi.org/10.1007/s11771-014-1915-6

Corresponding author: S. DAOUD; Tel: +213−0776877235; E-mail: salah_daoudo7@yahoo.fr