

## **Errata to**

*The Seismic Signal and Its Meaning*

by André Luiz Romanelli Rosa, Geophysical References Series No. 23

### **Chapter 2, page 229, paragraph 3 should be:**

At this point, what it is possible to state is: the signal corresponding to extrinsically anisotropic media is the result of the combination between the primary signal and internal multiples of different types. One important aspect to be highlighted is the role of the variation of rigidity, without which a modeling-based evaluation could result in considering the same media to be homogeneous and isotropic. More important is the fundamental role of scale and its relation with acquisition and processing: if Figure 2.50 is constructed with a shorter wavelet and a smaller distance between traces, the internal multiples in the lower two panels begin to become visible.

### **Chapter 2, page 233, in the first full paragraph the referenced equations should be:**

Equations 2.5.125 and 2.5.140, obtained without any approximation, are not easily applied in practice, particularly in the context of the CDP technique (or time migration), in which case it is necessary to establish simple relations between the medium properties and reflection times.

### **Chapter 3, page 489, the figure caption should be:**

**Figure 3.45.** Flowcharts of the recursive versions of modeling (left) and migration (right), both based on extrapolation along depth.

### **Appendix A, page 719, the first line after equation A.5.12 should be:**

where  $\hat{k}_x^2$  is a better quality approximation than  $\hat{k}_x^2$ .

### **Appendix A, page 748, the continued text at the top of the page should be:**

which corresponds to a Poisson's ratio equal to zero. The upper limit is observed in a Newtonian fluid. Note: negative Poisson's ratio, possible in the presence of heterogeneities, means that compressing a rock along one direction leads to a shrinkage in the orthogonal direction.