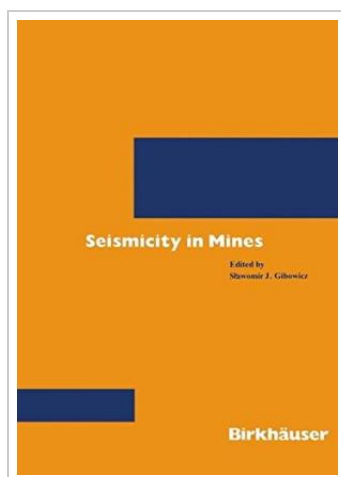




Seismicity in Mines

By Gibowicz, G.

Book Condition: New. Publisher/Verlag: Springer, Basel | Reprint from Pure and Applied Geophysics (PAGEOPH), Volume 129 (1989), No. 3/4 | Recent seismological research has focused on processes other than pure shear failure (double-couple) as an alternative mechanism for some types of seismic events. This has been stimulated by what appears to be anomalous focal mechanisms observed for several earthquakes of possible volcanic nature in the 1980 Mammoth Lakes, California sequence (JULIAN and SIPKIN, 1985; SIPKIN, 1986). Although studies have concentrated on earthquakes associated with magmatic processes, possible non-double-couple seismic failure has been observed, but not widely known, in cases of mine seismicity in the past three decades. Such cases have occurred on a world-wide basis; however, no cases until now have been observed in the United States. The existence of non-double-couple failure in mine seismicity has been controversial as it has been for tectonic/volcanic earthquakes. Several of the benchmark studies of mine seismicity in the deep South African gold mines have resulted in the belief that no fundamental distinction in the source mechanism exists between tectonic earthquakes and rock bursts (MCGARR, 1984); both types of events are the result of pure shear failure. However, the reported cases of imple...



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