

Directions of strong ground motions accompanying the 2004 Mid Niigata prefecture earthquake

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Directions of strong ground motions accompanying the 2004 Mid Niigata prefecture (Chuetsu) earthquake are determined. They are based on slickenlines (scratches) formed on the bottom of a tumbled automat (0.5t in weight) and on the exteriors of liquefaction-induced floating manholes in the Ojiya City. The major direction is ESE-WNW (N107E). It is close to the directions (N130E and N160E) determined by the seismometers (K-NET and JMA) in the city. In conclusion, they are useful criteria for directions of strong ground motions.