

Groundsurface displacement for the Hyogoken-Nambu Earthquake in and around Kobe City

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Groundsurface displacement for Hyogoken-Nambu Earthquake in and around Kobe City is compiled from data of Tanaka (1997). The results are examined based on the definite distribution of active fault (flexure) in the urbanied area. The vertical land movements characterize co-earthquake displacements as the bends of surface as much as several tens of centimeters along the active tectonic trace at many locations. There are horizontal movements that indicate the right-lateral slip. The diplacement might be originated by slip on fault planes in urbanized area of Kobe, Ashiya and Nishinomiya City without surface ruptures.