سیویلیکا – ناشر تخصصی مقالات کنفرانس ها و ژورنال ها گواهی ثبت مقاله در سیویلیکا ( **We Respect the Science** CIVILICA.com

عنوان مقاله:

DATA USABLE BANDWIDTH FOR EARTHQUAKESRECORDED ON SSAY ACCELEROGRAMS OF IRANSTRONG MOTION NETWORK

((ISMN)

محل انتشار:

همین کنفرانس بین المللی زلزله شناسی و مهندسی زلزله (سال: 1403)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

Seismic data processing in engineering seismology often involves bandpass filtering, a critical stepin analyzing strong motion data. This study focuses on selecting the usable data bandwidth usingaccelerograms from the Iran Strong Motion Network (ISMN) recorded by SSAY devices. Criteria forestablishing the lowest usable frequency included signal-to-noise ratios, Fourier Amplitude Spectra(FAS) shape analysis, and visual inspection of filtered time series. An iterative process was employed to adjust filter corner frequencies, resulting in different frequency band limits for each recording component. The upper-frequency limit is heavily influenced by the limitations of recording equipment. For 9.% of the current dataset, the usable bandwidth ranges from . The Hz to the interaction of the current dataset, the usable bandwidth ranges from recording equipment. The upper-frequency in this study provides insights into selecting appropriate frequency ranges for subsequents eismological analyses

كلمات كليدى:

Earthquakes, Data Processing, Iran Strong Motion N etwork, SSAY Accelerographs

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