

From: **Spectral Matching in Time Domain: A Seismological and Engineering Analysis**

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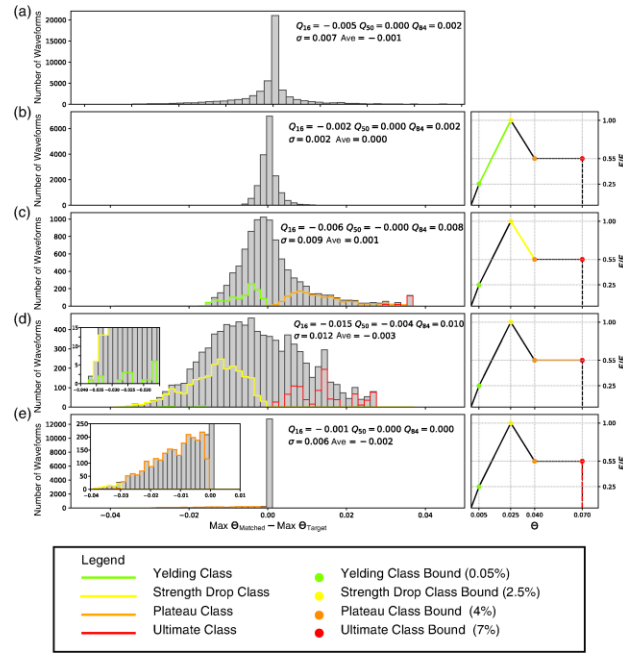


Figure Legend:

Histograms of the differences between the drift of the accelerograms matched to the target spectrum (matched drift) and the drift of the target accelerograms. (a) Drift misfit for all matched accelerograms. Drift misfit (filled histograms) for matched accelerograms for which the seed accelerogram generated a drift belonging to the (b) yielding, (c) strength drop, (d) plateau, and (e) ultimate classes. The overlaid histograms refer to drift misfits of matched time histories belonging to classes that are different from that of the seed. Spring capacity curves are also shown on the right side; the segment corresponding to the seed class response is highlighted. The legend explains the different symbols. The color version of this figure is available only in the electronic edition.