

GROUND-MOTION SPECTRAL ESTIMATES
BASED ON AFTERSHOCK DATA

by

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Aftershock data recorded at selected locations on portable, broad-band velocity systems can play an important role in earthquake-engineering research. (1,2) One important use of aftershock data was made following the 1971 San Fernando, California, earthquake; main-shock response spectra (Figure 1) were estimated for sites in the Sylmar-San Fernando area that sustained damage but did not record the main shock. Spectral estimates such as these provide a basis⁽³⁾ for defining regional variations in ground motion that may be expected to influence the severity of damage resulting from future earthquakes.

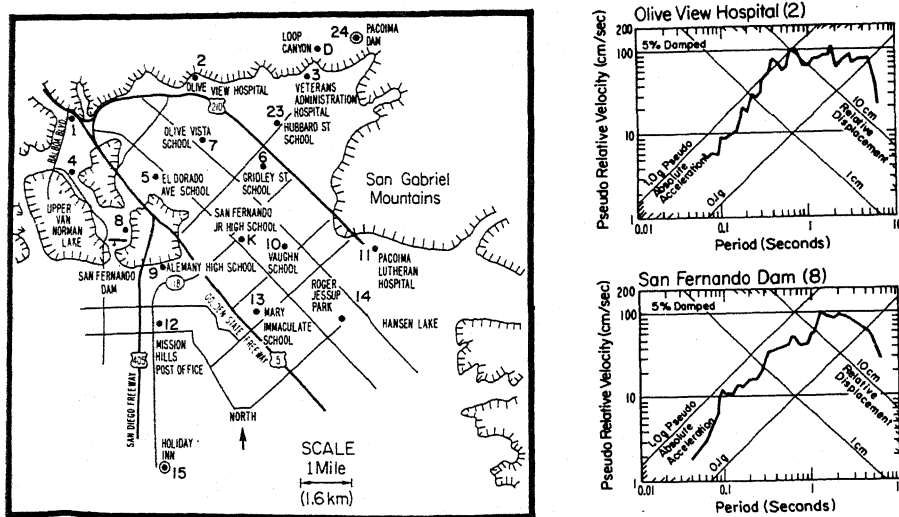


Figure 1. Response spectra estimated for sites in the Sylmar-San Fernando, CA, area, San Fernando earthquake.

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REFERENCES

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