



Effects of Near-Fault Ground Motions on Civil Infrastructure

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Message from the Guest Editors

Dear Colleagues,

Near-fault earthquakes (NFEs) have various peculiar effects on seismic response structures and, at the present time, risks from such earthquakes are neither well understood nor characterized.

This Special Issue aims to present a collection of papers covering:

- definition of near-fault seismic input;
- definition of nonsynchronous near field seismic input;
- methods of analysis of seismic responses under NFEs with special emphasis on pushover applications including incremental modal pushover analyses (IMPA) of conventional as well as isolated structures (buildings and bridges);
- structural responses to NFEs and comparisons among different design solutions;
- optimum seismic design under NFEs;
- Soil-structure interaction (SSI) effects under NFEs;
- case studies of responses to NFEs through both parametric studies and analysis of recorded data from instrumented structures.

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