
Anoosh Shamsabadi
Senior Bridge Engineer
Office of Engineering
Caltrans



Anoosh Shamsabadi has more than 20 years of professional experience in civil and geotechnical earthquake engineering. He has provided seismic soil-foundation-structure interaction and geotechnical earthquake engineering training for various government agencies and organizations. He has performed technical oversight and reviewed all the geotechnical and earthquake engineering activities for the seismic retrofit of several major toll bridges and tunnel structures in California. He has been actively involved in the development of computer software using state of the art and practice for seismic analysis and design of earth retaining system for Caltrans engineers.

Mr. Shamsabadi's research interests are in nonlinear seismic soil-abutment-structure interaction of highway bridges. He has performed multiple support time history kinematic Soil-Foundation-Structure Interaction analyses to characterize the stiffness and induced seismic loading for all the pile and shaft footing to reduce undue conservatism and eliminate costly foundation for various bridge structures. He is currently performing 3D nonlinear global bridge models to examine the impact of the various ground motions with strong velocity pulse using fully nonlinear Abutment-Soil-Foundation-Structure Interaction for skew bridges. He has developed formulation and a computer program to predict the nonlinear force displacement relationships for bridge abutment. He is currently conducting research on highway bridge abutments and skewed bridges to amend Caltrans Seismic Design Criteria (SDC).

Mr. Shamsabadi is a member of the committee for the NCHRP 12-70 project "Seismic design of retaining walls, buried structures and embankments" and is a member of the FHWA National Geotechnical Seismic Technical Working Group. He has reviewed many ASCE journals and FHWA manuals and publications.
