



سلسله جلسات سخنرانی گروه سازه و زلزله دانشگاه صنعتی امیرکبیر

(سمینار ۵)

Advanced Methods and Tools in Design and Analysis of Iconic Structures

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Abstract:

This talk will explore several innovative design and analysis of iconic structures around the globe. Two projects will be discussed in detail:

1-The 181 Fremont Tower project is a mixed-use high-rise building located in the high-density Transbay corridor in San Francisco, California. The tower is over 800ft above street level, with a total of 56 stories including five basement levels. Arup incorporated ground breaking design solutions including an innovative viscous damping system within the architecturally expressed steel megabraces and uplifting megacolumns which significantly reduced seismic and wind demands and resulted in a steel material savings of approximately 3,000 tons.

2- Seismic Assessment and Retrofit of a Large Number of Buildings due to Induced Seismicity in the Groningen Region, the Netherlands

Short Bio:



Armin Masroor, PhD, PE, is a senior engineer in the Advanced Technology + Research (AT+R) group in Arup's San Francisco office. Armin received his PhD in Structural Engineering from the State University of New York, University at Buffalo at 2012. Armin is a member of several code committees including the Base Isolation and Energy Dissipation issue team in Building Seismic Safety Council (BSSC).

Armin has a background in advanced structural analysis and design for extreme event scenarios such as air-blast loads, structural impact, and extreme ground motions. He specializes in structural control systems such as isolation devices, viscous, and hysteretic dampers. His projects include the Groningen (Netherlands) Earthquakes Structural Upgrading, 181 Fremont Tower, Transbay Transit Center and Gerald Desmond Bridge Replacement.