

#### عنوان مقاله:

Seismic Reliability Assessment of Jacket Offshore Platforms

### محل انتشار:

سيزدهمين همايش صنايع دريايي (سال: 1390)

تعداد صفحات اصل مقاله: 7

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#### خلاصه مقاله:

The performance-based earthquake engineering has gained major attention in assessment of the structural dynamicbehavior of Structures in the past decade. In this paper, Analytical models are employed including a comprehensivenonlinear model for offshore platforms that incorporates Fiber Elements which are capable of modeling post-bucklingbehavior of braces, Incremental dynamic analysis is then utilized to generate required data for performance basedevaluation based on nonlinear dynamic analyses and reliability theory with regard to uncertainty. Moreover, case studyon presently designated jacket offshore platforms in South Pars Gas Field (Phase 19 platform) Of the Persian Gulfregion has been performed. Two-dimensional models of the mentioned platforms and the pile stubs with actual soil insitucharacteristics are simulated using OpenSees software. This research is intended to .contribute to the progress inimprovement of the methods on seismic design and evaluation of offshore structures

# كلمات كليدى:

Performance-Based Earthquake Engineering (PBEE), Incremental Dynamic Analysis (IDA) Pile-Soil-Structure (nteraction, Uncertainty, Confidence Level, Mean Annual Frequency (MAF

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