

ISO 19901-2:2004-11 (E)

Petroleum and natural gas industries - Specific requirements for offshore structures - Part 2: Seismic design procedures and criteria

Contents		Page
Foreword		iv
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols and abbreviated terms	4
4.1	Symbols	4
4.2	Abbreviated terms	6
5	Earthquake hazards	6
6	Seismic design principles and methodology	7
6.1	Design principles	7
6.2	Seismic design procedures	7
6.3	Spectral acceleration data	10
6.4	Seismic risk category	11
6.5	Seismic design requirements	12
7	Simplified seismic action procedure	12
7.1	Soil classification and spectral shape	12
7.2	Seismic action procedure	16
8	Detailed seismic action procedure	16
8.1	Site-specific seismic hazard assessment	16
8.2	Probabilistic seismic hazard analysis	17
8.3	Deterministic seismic hazard analysis	17
8.4	Seismic action procedure	19
8.5	Local site response analyses	21
9	Performance requirements	22
9.1	ELE performance	22
9.2	ALE performance	22
Annex A (informative) Additional information and guidance		23
Annex B (informative) Regional information		32
Bibliography		45