DIN EN ISO 19901-2:2018-03 (E)

Petroleum and natural gas industries - Specific requirements for offshore structures - Part 2: Seismic design procedures and criteria (ISO 19901-2:2017); English version EN ISO 19901-2:2017

Inhalt

Seite

Nationaler Anhang NA (informativ) Begriffe, Symbole und Abkürzungen 3

3 Begriffe 3

4 Symbole und Abkürzungen 7
4.1 Symbole 7
4.2 Abkürzungen 9

Nationaler Anhang NB (informativ) Literaturhinweise 10

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Symbols and abbreviated terms 5
4.1 Symbols 5
4.2 Abbreviated terms 6

5 Earthquake hazards 7

6 Seismic design principles and methodology 7
6.1 Design principles 7
6.2 Seismic design procedures 8
6.2.1 General 8
6.2.2 Extreme level earthquake design 9
6.2.3 Abnormal level earthquake design 10
6.3 Spectral acceleration data 11
6.4 Seismic risk category 11
6.5 Seismic design requirements 12
6.6 Site investigation 13

7 Simplified seismic action procedure 13
7.1 Soil classification and spectral shape 13
7.2 Seismic action procedure 17

8 Detailed seismic action procedure 18
8.1 Site-specific seismic hazard assessment 18
8.2 Probabilistic seismic hazard analysis 18
8.3 Deterministic seismic hazard analysis 19
8.4 Seismic action procedure 21
8.5 Local site response analyses 24

9 Performance requirements 24
9.1 ELE performance 24
9.2 ALE performance 25

Annex A (informative) **Additional information and guidance** **26**
Annex B (informative) **Simplified action procedure spectral accelerations** **35**
Annex C (informative) **Regional information** **46**
Bibliography **50**