
**Petroleum and natural gas industries —
Drilling and production equipment —**

Part 2:

**Deepwater drilling riser methodologies,
operations, and integrity technical report**

*Industries du pétrole et du gaz naturel — Équipement de forage et de
production —*

*Partie 2: Méthodologies, opérations et rapport technique d'intégrité
relatifs aux tubes prolongateurs pour forages en eaux profondes*



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2009

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 0111
Fax + 41 22 749 0947
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	7
5 Coupled drilling riser/conductor analysis methodology and worked example	7
5.1 Coupled methodology	7
5.2 Decoupled methodology	7
5.3 Analysis considerations	10
5.4 Model development	10
5.5 Coupled riser analysis	19
5.6 Decoupled riser analysis	21
5.7 Worked example	22
5.8 Basis of analysis	22
5.9 Model description and analysis procedure	29
5.10 Results	30
6 Drift-off/drive-off analysis methodology and worked example	33
6.1 Drift-off analysis methodology	33
6.2 Example	36
7 Recoil analysis methodology and worked example	50
7.1 Introduction	50
7.2 Background	50
7.3 Required information	57
7.4 Performance criteria	64
7.5 Worked example applicability	68
Bibliography	88