Mechanics of Offshore Pipelines

Description: Offshore oil and gas production was conducted throughout the entire 20th century, but the industry's modern importance and vibrancy did not start until the early 1970s, when the North Sea became a major producer. Since then, the expansion of the offshore oil industry has been continuous and rapid. Pipelines, and more generally long tubular structures, are major oil and gas industry tools used in exploration, drilling, production, and transmission. Installing and operating tubular structures in deep waters places unique demands on them. Technical challenges within the field have spawned significant research and development efforts in a broad range of areas. Volume I addresses problems of buckling and collapse of long inelastic cylinders under various loads encountered in the offshore arena. Several of the solutions are also directly applicable to land pipelines. The approach of Mechanics of Offshore Pipelines is problem oriented. The background of each problem and scenario are first outlined and each discussion finishes with design recommendations.

New and classical problems addressed - investigated through a combination of experiments and analysis Each chapter deals with a specific mechanical problem that is analyzed independently The fundamental nature of the problems makes them also applicable to other fields, including tubular components in nuclear reactors and power plants, aerospace structures, automotive and civil engineering structures, naval vehicles and structures

Contents: Chapter 1: Introduction Chapter 2: Offshore facilities and pipeline installation methods Chapter 3: Pipe and tube manufacturing processes Chapter 4: Buckling and collapse under external pressure Chapter 5: Collapse of UOE pipe under external pressure Chapter 6: Collapse of dented pipes under external pressure Chapter 7: Buckling and collapse under combined external pressure and tension Chapter 8: Inelastic response, buckling and collapse under pure bending Chapter 9: Buckling and collapse under combined bending and external pressure Chapter 10: Inelastic response under combined bending and tension Chapter 11: Plastic buckling and collapse under axial compression Chapter 12: Combined internal pressure and axial compression Chapter 13: Elements of plasticity theory

Ordering: Order Online - http://www.researchandmarkets.com/reports/1767970/ Order by Fax - using the form below Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: Mechanics of Offshore Pipelines
Web Address: http://www.researchandmarkets.com/reports/1767970/
Office Code: SC6I67PV

Product Format
Please select the product format and quantity you require:

Quantity
Hard Copy (Hard Back): ☐ USD 105 + USD 29 Shipping/Handling

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: ☐ Mr ☐ Mrs ☐ Dr ☐ Miss ☐ Ms ☐ Prof
First Name: __________________________ Last Name: __________________________
Email Address: * __________________________
Job Title: __________________________
Organisation: __________________________
Address: __________________________
City: __________________________
Postal / Zip Code: __________________________
Country: __________________________
Phone Number: __________________________
Fax Number: __________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
### Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

- **Pay by credit card:** You will receive an email with a link to a secure webpage to enter your credit card details.

- **Pay by check:** Please post the check, accompanied by this form, to:
  
  Research and Markets,  
  Guinness Center,  
  Taylors Lane,  
  Dublin 8,  
  Ireland.

- **Pay by wire transfer:** Please transfer funds to:
  
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Account number</td>
<td>833 130 83</td>
</tr>
<tr>
<td>Sort code</td>
<td>98-53-30</td>
</tr>
<tr>
<td>Swift code</td>
<td>ULSBIE2D</td>
</tr>
<tr>
<td>IBAN number</td>
<td>IE78ULSB98533083313083</td>
</tr>
<tr>
<td>Bank Address</td>
<td>Ulster Bank, 27-35 Main Street, Blackrock, Co. Dublin, Ireland.</td>
</tr>
</tbody>
</table>

If you have a Marketing Code please enter it below:

**Marketing Code:**

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp