ROV Intervention and Interface

Presented by

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Outline

Lecture 1: Introduction
  - Objective

Lecture 2: ROV Intervention
  - Site Survey
  - Drilling Assistance
  - Installation Assistance
  - Operation Assistance
  - Inspection
  - Maintenance and Repair

Lecture 3: ROV System
  - ROV Intervention System
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Outline

Lecture 4: ROV Interface Requirements
Lecture 5: Remote-Operated Tool (ROT)
Lecture 1: Introduction to ROV Intervention and Interface

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Introduction

- As **field developments** move into deep water, numerous **subsea intervention** tasks have been moved out of reach of **human direct intervention**.

- **Remote operated vehicles (ROVs)** and **remote-operated tools (ROTs)** are required to carry out **subsea tasks** that **divers** cannot reach.

- An **ROV** is a **free-swimming submersible craft** used to perform **subsea tasks** such as **valve operations**, **hydraulic functions**, and other **general tasks**.

- An **ROT** system is a dedicated, **unmanned subsea tool** used for **remote installation or module** replacement tasks that require **lift capacity** beyond that of free-swimming ROV systems.
Introduction

This module provides an overview of the state of the art for subsea remote intervention and vehicles, ROV technologies, and ROV capabilities and requirements for subsea operations.
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