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Slug detection (see equation (7)) is part of the supervisory control, which also finds the references based on the learning procedure. The slug detection is combined

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with a selection block which switches between the two PID controllers. The implemented control scheme is shown in figure 6.

Learning control for riser-slug elimination and production ...

Pedersen, S., Løhndorf, P. D., & Yang, Z. (2014). Learning control for riser-slug elimination and

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production-rate optimization for an offshore oil and gas production process. In Proceedings of the 19th World Congress of the International Federation of Automatic Control, IFAC 2014 (pp. 8522-8527). IFAC Publisher. I F A C Workshop

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slugs and snails. Some
swear by this method
and coffee grounds are
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short of considering

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the number of coffee shops that have sprung up everywhere in the past quarter of a century.

10 Best Ways To Control Slugs and ... - Learning with Experts

4km and 7km long multiphase flow lines. Severe slug-ging in the riser was experienced and a slug control system was installed to suppress this. The slug

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control suppressed the slugging and stabilized the flow, and the flow line pressure was reduced significantly. This slug control system has been operating successfully since the beginning. A lot of work has been spent in the development of the multiphase flow simulator OLGA. A simplified non-

New slug control

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strategies, tuning rules and experimental ...

Anti-slug feedback control is one effective solution for changing the slug flow to a stable flow regime (Pedersen et al., 2014). A common approach is to stabilize the fluctuating pressure and/or flow by manipulating the topside choke valve at the riser top (Jahanshahi et al., 2012,

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(Jahanshahi, 2013).

Influence of riser-induced slugs on the downstream ...

Furthermore, it is confirmed that a PWT-efficient riser bottom pressure (P_{rb}) anti-slug control strategy has to guarantee stabilization of the mass inflow rate to the separator () for archiving ...

(PDF) Influence of riser-induced slugs

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on the downstream

Steady-state multiphase simulation software such as PIPESIM can predict hydrodynamic slug distributions along the flowline and riser slugs. However, only OLGA 2000 (standard version), the OLGA 2000 slug tracking module, and ProFES are good at simulating transient multiphase flow and predicting the

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liquid holdup variations along the flowlines, terrain slugs and start-up/shutdown transient slugs.

Slugging and Liquid Handling - OilfieldWiki

While slug flow can be controlled by choking the riser production, understanding slugging root causes may present opportunities for minimizing production losses, for

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example by altering the fluid composition of the commingled flow in the riser.

JPT Machine-Learning-Assisted Approach Analyzes Slug-Flow ...

A liquid slug begins to form in the riser Gas Liquid. 9 Terrain Induced Slug - Severe Riser fills, and liquid begins to unload into the separator Gas pressure builds up

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behind slug!!! Severe
Slugging Stage 2 Gas
Liquid. 10 Severe
Slugging Stage 3
Terrain Induced Slug -
Severe Gas penetrates
into the riser Liquid
begins to

Slugging in Pipelines: What You NEED to Know

learning control
strategy, as shown in
Fig.1 0, can . assistant
the lear ning co ntrol
system to auto

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atically find
control for riser-slug
elimination and pro
duction-rate .

**(PDF) Plant-wide
Control Strategy for
Improving Produced**

...

Slug-flow Control in
Submarine Oil-risers
using SMC Strategies
Pagano, D. J.*

Plucenio, A.* Traple,
A.* * Departamento
de Automac_ao e
Sistemas, Universidade

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Abstract: In this paper
we propose different
Sliding Mode Control
(SMC) strategies to
control slug-

Slug-flow Control in Submarine Oil-risers using SMC Strategies

slug control, Active

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slug-control methods have been developed in recent years. One such system is a relatively inexpensive solution developed by Shell that has proved to be very effective in stabilizing slugging in flowlines and risers. Field data from case histories in the Gulf of Mexico (GOM), Malaysia, and Nigeria indicate that production gains of 10% are often possible.

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JPT Increasing Production by Applying Active Slug

...

Theoretical and experimental work on riser slugging removal by active control started in the late seventies, with the work of Schmidt et. al. (1979). Hedne and Linga (1990) ran the first large scale experiments on slug control in cooperation

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with StatoilHydro at Sintef's Multiphase flow laboratory. They showed how riser slugs can be

Removal of heavy slugging in subsea wells by automatic control

The process of severe slugging in a riser system was considered as a cycle consisting of four steps : (1) slug formation; (2) slug movement out of the

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riser; (3) blowout; and (4) liquid fallback. The pressure and the instantaneous velocities of gas and liquid flow in the riser system oscillate violently, which may shock the downstream equipment ...

Modeling and Experiments of Severe Slugging in a Riser System

Control scheme can reduce the settling time

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significantly. A number of anti-slug control strategies are proposed, where the robust control solution shows the best potential in both anti-slug control and production rate improvement.

Simulation results show that control solutions with the riser bottom pressure P

Aalborg Universitet
Plant-Wide Anti-Slug

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Formation of slug flow in oil well riser pipelines has been studied by many other researchers. Various control solutions to avoid the slug flow in oil wells along with the development of mathematical model and controllability analysis can be found at (Storkaas, 2005). Control of riser base pressure for stabilizing the slug flow have

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Elimination And
Simulation of
Control Structures
for Slug Flow in
Riser ...

S. Pedersen, P.
Durdevic, Z. Yang.
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riser-slug elimination
and production-rate
optimization for an
offshore oil and gas
production process. In
Proceedings of the
19th IFAC World
Congress, IFAC, Cape

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