Wet Gas Compressor Performance Core

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Lec 15: Polytropic Efficiency of Compressor and Turbine~~Wet Gas Compressor Performance Core~~

Wet-gas compression could reduce the need for expensive scrubbers and separators and this would be a major economic enhancement to subsea processing. There is currently no standard for wet gas compression as the ASME PTC 10 [1] offers no guidance on this. The complex phenomena encountered in wet-gas compression is not yet fully understood.

~~Wet Gas Compressor Performance - CORE~~

The current standards (ISO 5389:2005) exist only for dry gas by utilizing Schultz method. In wet gas compression, fluid properties are changing as fluid being compressed. Schultz method may not be accurate to be applied in wet gas compression since it uses average fluid properties between inlet and outlet of the compressor.The necessities of standard in wet gas compression encourage this project to conduct a research in wet gas compression performance.

~~Review of Wet Gas Compressor Performance - CORE~~

There is currently no standard for wet gas compression as the ASME PTC 10 [1] offers no guidance on this. The complex phenomena encountered in wet-gas compression is not yet fully understood. The present work is concerned with the thermal discharge equilibrium of a wet-gas compressor, as this will strongly influence the performance calculations of the compressor.

~~Wet Gas Compressor Performance: A Numerical Investigation ...~~

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The\ud experimental tests were performed on an air-water multiphase open-loop test rig, which\ud consists of a single-stage centrifugal compressor, with a standard three-dimensional impeller\ud that was tested in dry and multiphase conditions.\ud The main objective of this research is the study of the stability and the range of the wet\ud gas compressor at a low mass flow rate.

~~Wet Gas Compressors - Stability and Range - CORE~~

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Ryan Cater, ... Dirk Büche, in Compression Machinery for Oil and Gas, 2019. Evaporation Performance Models. To predict the effect of wet gas on compressor performance, the most popular approach in the literature is to couple a 1D model of the gas compression path to a thermal model of the liquid phase. The coupling of the two models is done through equations of enthalpy and entropy that include phase change of the liquid as the gas temperature and pressure changes.

~~Compressor Performance - an overview | ScienceDirect Topics~~

The model is designed to predict transient behavior of the compressor test facility at NTNU during dry and wet gas trip scenarios. Its steady state performance has been validated against test data. The deviation of polytropic head and suction volume flow is less than 1% for all test points but one.Dry and wet gas model performance during trip is validated in the second subtask.

~~Wet Gas Compressor Transients - CORE~~

However, the performance of these systems is significantly reduced in wet gas compression. Liquid changes the compressor characteristic, and affects the wear and tear of the machine. Liquid presence will also reduce the accuracy of flow, pressure and temperature measurements.

~~Wet Gas Compressor Surge Detection - CORE~~

Stable compressor performance and operation at maximum efficiency point is desirable from both a mechanical and economical point of view. The effect of VIGV on wet gas compression is therefore of specific interest. A variable inlet guide vanes system has been examined in combination with a single stage centrifugal compressor.

~~Wet Gas Compression - IGV Control - CORE~~

Most FCC and delayed coker wet gas compressors have an inter-cooler system that improves compressor efficiency and reduces the gas temperature rise through the stages of compression. Inter-cooled compressors will have a low-stage curve defining performance upstream of the inter-cooler and a high-stage curve for the downstream portion . In reality, the low and high-stages will have 3-4 actual wheels having their own individual performance curves.

~~Wet Gas Compressor - part1 | FCC Refinery Training Network~~

Wet Compression is designed to increase the power output of the gas turbine by reducing compressor inlet temperatures, intercooling the air mass flow within the compressor and hence an increasing mass flow throughout the turbine. The Wet Compression provides significant performance advantages and offers attractive financial payback options.

~~Wet Compression (Wet C) | Modernization and Upgrades for ...~~

Understanding the interaction between fundamental principles of centrifugal compression, operating changes that influence compressor performance and basic control is important. Since the wet gas compressor plays a central role in FCC operations, it will be used to review compressor performance fundamentals, common operating conditions that influence operations and basic control philosophy.

~~Centrifugal Compressor Operations — Process Consulting ...~~

Traditionally, compressors are designed for operation with only dry gas, and hence ingesting a liquid-gas mixture causes the compressor to operate in an off-design condition. The off-design operation with wet gas leads to reduction in efficiency and requires up to two times the power as that of dry compression to maintain the flow and pressure ratio equivalent to dry gas operation [1].

~~CENTRIFUGAL COMPRESSION MACHINERY FOR WET NATURAL GAS ...~~

A remaining question is whether compressor efficiency is affected by the change from HFC134a to HFO1234ze(E). Compressor performance is controlled by many factors. At identical impeller tip Mach number (u 2 /a 0) we should expect identical performance only to be corrected for differences in frictional losses. The 4.5% drop in actual impeller speed - required for head and flow factor similarity - means that all fluid velocities will be 4.5% lower when the compressor is running with HFO1234ze ...

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catalytic cracker (FCC) wet gas as compared with reformer recycle hydrogen. As an example, a sample taken from the discharge of a coker wet gas compressor was analyzed at the lab ambient temperature (approximately 75.F) and at 27YF (sample temperature, Table 3). As can be seen, the incorrect gas composition

~~PRACTICAL METHODS FOR FIELD PERFORMANCE TESTING ...~~

The performance curve flow rate is based on suction conditions and expressed as inlet cubic feet per minute (ICFM). It is not standard gas flow metering units. Wet gas is a compressible fluid, therefore changes in compressor suction conditions that increase gas density will reduce wet gas volumetric flow rate and free up compres- sor capacity.

~~Understanding Centrifugal Compressor Performance in a ...~~

The Wet Gas Compression and Multiphase Boosting lab are located in the basement of the Thermal Engineering Laboratory at NTNU. In combination the test rigs handle multiphase fluids ranging from pure liquid to pure gas. The facility has been developed by Prof. Lars E Bakken, Chief researcher Øyvind Hundseid and Sr. Engineer Erik Langørgen.

Chemical reactor engineering, as a discipline, has a central role to play in helping with the development of adequate strategies and technologies that can deal effectively with the concerns of today's society, which are increasingly becoming attuned to the environment. The current challenge is how to adapt present processes and products to meet more rigorous environmental standards. Chemical Reactor Technology for Environmentally Safe Reactors and Products addresses these issues in three parts: I -- Fuels of the Future and Changing Fuel Needs; II -- Alternative Sources; III -- Emission Control, Chemical Reactor Safety and Engineering. Attention is also paid, throughout the text, to the fundamental technological aspects of reactor engineering and to possible strategies for bridging knowledge gaps.

In chemical processes, the progressive deactivation of solid catalysts is a major economic concern and mastering their stability has become as essential as controlling their activity and selectivity. For these reasons, there is a strong motivation to understand the mechanisms leading to any loss in activity and/or selectivity and to find out the efficient preventive measures and regenerative solutions that open the way towards cheaper and cleaner processes. This book covers in a comprehensive way both the fundamental and applied aspects of solid catalyst deactivation and encompasses the state-of-the-art in the field of reactions catalyzed by zeolites. This particular choice is justified by the widespread use of molecular sieves in refining, petrochemicals and organic chemicals synthesis processes, by the large variety in the nature of their active sites (acid, base, acid-base, redox, bifunctional) and especially by their peculiar features, in terms of crystallinity, structural order and textural properties, which make them ideal models for heterogeneous catalysis. The aim of this book is to be a critical review in the field of zeolite deactivation and regeneration, by collecting a series of contributions by experts in the field which describe the factors, explain the techniques to study the causes and suggest methods to prevent (or limit) catalyst deactivation. At the same time, an anthology of commercial processes and exemplar cases provides the reader with theoretical insights and practical hints on the deactivation mechanisms and draws attention to the key role played by the loss of activity on process design and industrial practice.

A significant addition to the literature on gas turbine technology, the second edition of Gas Turbine Performance is a lengthy text covering product advances and technological developments. Including extensive figures, charts, tables and formulae, this book will interest everyone concerned with gas turbine technology, whether they are designers, marketing staff or users.

Compression Machinery for Oil and Gas is the go-to source for all oil and gas compressors across the industry spectrum. Covering multiple topics from start to finish, this reference gives a complete guide to technology developments and their applications and implementation, including research trends. Including information on relevant standards and developments in subsea and downhole compression, this book aids engineers with a handy, single resource that will help them stay up-to-date on the compressors needed for today's oil and gas applications. Provides an overview of the latest technology, along with a detailed discussion of engineering Delivers on the efficiency, range and limit estimations for machines Pulls together multiple contributors to balance content from both academics and corporate research

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Everything you wanted to know about industrial gas turbines for electric power generation in one source with hard-to-find, hands-on technical information.

Nuclear Thermal-Hydraulic Systems provides a comprehensive approach to nuclear reactor thermal-hydraulics, reflecting the latest technologies, reactor designs, and safety considerations. The text makes extensive use of color images, internet links, computer graphics, and other innovative techniques to explore nuclear power plant design and operation. Key fluid mechanics, heat transfer, and nuclear engineering concepts are carefully explained, and supported with worked examples, tables, and graphics. Intended for use in one or two semester courses, the text is suitable for both undergraduate and graduate students. A complete Solutions Manual is available for professors adopting the text.

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