Fcc Nozzle Technology Design Characterization And

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FCC - 3Y Power Technology | 1pdf.net
Fluid Catalytic Cracking Process Technology HYATT REGENCY NORTH HOUSTON HOUSTON, TEXAS USA MAY 8, 9, 10, 2017 ... presentations on FCC unit design, FCC process fundamentals, and new developments in the area of fluid catalytic cracking. ... • New Feed Nozzle Designs • Advanced Riser Termination Devices

Recent advances in FCC technology - ScienceDirect
One relatively inexpensive option that may be particularly attractive is an innovation in fluidised catalytic cracking (FCC) feed nozzle technology, previously thought to be a mature technology. Recent developments here provide the opportunity to increase slurry oil conversion through better atomisation and to, therefore, reduce this heavy, high-sulphur stream, which traditionally goes to the marine fuel oil pool.

EP0318185A1 - FCC feed nozzle design - Google Patents
7. FCC Catalyst Technology • Zeolite Cracking Catalysts • Catalyst Composition and Selectivity Effects. 8. FCC Catalyst Evaluation • Analytical Characterization • Performance Testing • Impact of Properties on FCCU Operation. 9. Advances In FCC Technology • New Feed Nozzle Designs • Advanced Riser Termination Devices

Aerodynamic Characterization of Linear Aerospike Nozzles ...
? Robust design, long life ? Simplest geometry for expansion ? No cantilevered arms to avoid oscillations and cyclic fatigue ? Nozzle design minimizes erosion and attrition ? Special refractory and anchor details

WET SCRUBBING SYSTEM CONTROL TECHNOLOGY FOR REFINERIES- AN ...
Stripper baffle design The performance of the FCC reactor stripper also has a substantial impact on yields and profitability. Ideal stripper design provides adequate catalyst residence time and low...

Chapter 4 Commercial Preparation and Characterization of ...
The test model consisted of three clustered cell nozzle modules or a nonclustered two-dimensional nozzle with an exit Mach number of 3.5, followed by a straight section and a contoured spike. The model was exposed to an external flow of Mach 2.0 to simulate off-design transonic flight conditions.

MOC Nozzle Simulator - NASA
The technology was originally developed by Total as a cost-effective, flexible and reliable means to profit from market opportunities. This advanced FCC technology is offered to the market place through the FCC Alliance between Axens, IFP Energies Nouvelles, Total and TechnipFMC.

2020 Structural Engineer Nozzle Design- Promontory, Utah ...
User Tools. Cart

Fcc Nozzle Technology Design Characterization

Although most of modern FCC units have the feed nozzles installed through riser shrouds at a fixed angle, a new feed nozzle design, shown in Fig. 1, enables an FCC unit to adjust the feed injection angle while using the existing riser shrouds.

Technip Stone & Webster Process Technology FCC Revamp ...
It uses the classic Method of Characteristics (MOC) technique to design a jet nozzle and analzye the internal flow field, the plume, and the external flow near the nozzle exit. It can then determinine the interactions between these three flow fields. We are making it available for beta testing among the nozzle team members.

Design, Manufacture, and Characterization of a Carbon ...
U.S. Patent 4,650,566 is relevant in disclosing a nozzle system for blending oil and steam into the lower part of an FCC riser. Numerous other FCC feed nozzle designs are known in the art, as...

FCC - Axens
Equipment: Power Supply Brand: 3Y POWER Test Model No.: YM-7381C, YH-7761A, YH-8112D Applicant: 3Y POWER TECHNOLOGY Test Report No.: FD951017A04 We, Advance Data Technology Corp., declare that the equipment above has been tested in our facility and found compliance with the requirement limits of applicable standards.

FLUID CATALYTIC CRACKING PROCESS TECHNOLOGY ...
and Process Characterization of FCCU's using Gamma Ray and Tracer Technology. Presentation Agenda ... – Gamma Scanning – Tracer study • Case study – Cyclone Blockages – Feed Nozzle performance ... FCC Reactor Stripper ...

How innovations in FCC feed nozzle technology
The design of a new 76 mm (3 inch) nozzle of the Interaction Heating Facility arc jet at NASA Ames Research Center is described. The computational e orts which were an in-tegral part of the preliminary design and characterization of the nozzle are described as well. Details of heat ux measurements made in this new nozzle are provided. Apart from

Spray Analysis and Research
• Plan and oversee material characterization tests of various materials used in the design of rocket nozzles. • Plan and analyze material characterization test data for analysis input properties and material capability properties. • Prepare reports and memos documenting structural assessment activities and results.

Online, Non-intrusive Trouble Shooting and Process ...
The KBR/ExxonMobil FCC alliance combines proven KBR FCC technologies with advanced ExxonMobil features. ATOMAX-2™ Feed KBR’s ATOMAX-2™ Feed nozzles feature 43% smaller droplet size than leading ATOMAX-1™ nozzles. This provides 5 times more droplets in any given feed volume.

Refiner Improves FCC Yields Using Latest Process ...
Optimize processes to improve quality and reduce waste . Discover new way to apply fluids, cool gasses, spray dry powders and more. Validate designs for new equipment prior to design approval. Solve unique problems through the design and fabrication of custom prototypes

Fluid Catalytic Cracking Process Technology
Nozzle extensions made of ceramic matrix composites (CMC s) have shown the potential to replace heavy superalloy nozzles and improve the performance of future upper?stage and orbital rocket engines. Gas permeability has been reported to be a critical issue during the manufacture for CMC nozzles.

Design and characterization of a new nozzle in a NASA arc-jet
The process itself is basically simple: a slurry containing the ingredients of the cracking catalysts is atomized through either a spray nozzle or a fluted wheel rotating at 6000 t rpm into a heated chamber, where the aqueous medium is rapidly evaporated. A porous microsphere of thoroughly mixed catalyst ingredients is left after evaporation.

KBR - Fluid Catalytic Cracking (FCC)
A LAB-F nozzle, located at the exit of the filtering module and spraying counter-current to gas flow, provides the mechanism for the collection of the

fine particulate and mist, which has been enlarged and agglomerated.