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# Cracking Economics

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## Cracking Economics

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### **On the Economics of Offline Password Cracking**

On the Economics of Offline Password Cracking Jeremiah Blocki Purdue University Ben Harsha Purdue University Samson Zhou Purdue University Abstract—We develop an economic model of an offline pass-word cracker which allows us to make quantitative predictions about the fraction of accounts that a rational password attacker

### **Process Economics Program - Markit**

Where fracking is widespread (in 2014 predominantly in the US and Canada), chemical operating companies have announced significant grass roots projects to build world-scale ethylene steam crackers

### **Process Economics Program (PEP): Steam Cracking of Crude Oil**

compare that process in detail with traditional naphtha cracking In particular, we lay out side by side crude oil vs naphtha comparisons of yield sets, major equipment sizes, and process economics Our analysis indicates that the ExxonMobil process achieves a \$100-\$200/ton cost advantage vis-à-vis naphtha cracking

## **IHS CHEMICAL Naphtha Catalytic Cracking**

Process economics 10 The downflow FCC process 11 Process economics 12 Process comparison on a Chinese basis 14 Steam cracking of condensate 15 Process economics 16 3 Industry status 18 Characteristics of the market 19 4 Technology review 20 General considerations 20 SK Energy Advanced Catalytic Olefins® (ACO) technology 22 Downflow FCC process 23

## **Petroleum Refining Overview - Inside Mines**

Petroleum Refining Overview economics specific to Cracking feedstocks(1930's) Asphalt, residual coker feedstocks 1913 Thermal cracking Increase gasoline Residual, bunker fuel 1916 Sweetening Reduce sulfur & odor Sulfur 1930 Thermal reforming Improve octane number Residual

## **The Economics of Petroleum Refining**

The Economics of Petroleum Refining Understanding the business of processing crude oil Cracking Coking Gases (C 1 to C 4) LPG Naphtha (C 5 to C 9) Petchem Gasoline (C 5 to C 10) Cars Kerosene (C 10) duced new dynamics to the economics of refining, and have shifted the ...

## **AP Microeconomics Full Review - North Allegheny**

AP Microeconomics Full Review Page 7 of 56 1 Come back to them later if you have time ii Use the letter of the day strategy 1 Guess using the same answer choice e No penalty for guessing II Free response section a

## **NGL 101- The Basics - Energy Information Administration**

NGL's from Gas - Processing Economics Gas Plant Profitability Metric - "Frac Spreads" The gas plant equivalent of a refinery "crack spread" Measure of gross profitability for gas plants Calculated as the difference between the revenue from sales of NGL's contained in ...

## **07 Catalytic Cracking - Inside Mines**

History -Fixed, Moving, & Fluidized Bed Cracking Cyclic fixed bed catalytic cracking commercialized in late 1930s 1stHoudryProcess Corporation catalyst cracker started up at Sun Oil's Paulsboro, New Jersey, refinery in June 1936 Three fixed bed reactors & processed 2,000 barrels/day

## **Ethane Cracker Supply Chain Market Study**

- An analysis of the industries and supply chain that relate to the cracking of natural gas
- The identification of three existing ethane crackers, including an analysis of the types of companies within the supply chain that are located within the comparison regions
- In-depth market research on industries within the supply chain

## **Title Goes Here in 1 or 2 Lines**

- Cash costs for ethane cracking in China are higher than in the US due to ethane transport costs
- But - finished product shipping is reduced or eliminated
- In addition, capital cost savings may outweigh the higher operating and feedstock costs
- Ethane cracking capital cost in ...

## **Advances in Fluid Catalytic Cracking - Markit**

report then develops process economics for cracking the most common type of FCC feedstock, vacuum gas oil PEP Report 228, Refinery Residue Upgrading, issued in 2000 reviews the special issues and technology of Residual Fluid Catalytic Cracking (RFCC) and develops process economics for cracking a residual feedstock

## **AM-05-55 A New Proxy for Coking Margins - Forget the Crack ...**

A New Proxy for Coking Margins - Forget the Crack Spread typical Cracking Refinery Configuration and Margins Unlike cracking refineries, the economics of coking refineries are driven largely by the so-called light-heavy differential—the AM-05-55 Page 3

## **What will the Spillover Effects be in Global Petrochemical ...**

What will the Spillover Effects be in Global Petrochemical Markets? Bassam Fattouh and together with the resulting impact this could have on naphtha cracking outside the USA In concluding, this (E&P) economics of the production well by allowing operators to capture a gas-liquids spread between natural gas and NGL commodities when the

### **Ethylene Production - Emerson**

The two primary feedstocks for ethylene production are naphtha and natural gas (ethane, propane, butane, etc) The first step in the production of ethylene is to take the feedstock and crack it into ethylene and other various products in a furnace This process is ...

### **Cracking the TEAPOT: Technical, Economic, and Achievable ...**

development and implementation issues Max earned his master of arts in economics from Georgia State University and a bachelor of arts in economics from Macalester College Acknowledgments This report was made possible through the generous support of the Oak Ridge National Laboratory

### **A Literature Review on Cold Cracking of Petroleum Crude Oil**

- Limited and inconsistent literature data indicate the economics of “cold cracking” are uncertain
- Technology has not yet been adequately tested

The few cold cracking “beaker tests” were not comprehensively studied There is too little quantitative information to make comparisons with conventional refining

### **Economics of Password Cracking in the GPU Era**

Achieve More SanDisk Confidential 1 1 June 23, 2011 Economics of Password Cracking in the GPU Era 8/3/2011 Robert Imhoff-Dousharm