Deactivation And Regeneration Of Zeolite Catalysts

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Deactivation and regeneration of ZSM-5 zeolite in ...

The HZSM-5 zeolite catalysts before and after regeneration were characterized by a series of techniques, including powder X-ray diffraction (XRD), X-ray fluorescence (XRF), X-ray photoelectron spectroscopy (XPS), N 2 adsorption, 27 Al magic-angle spinning nuclear magnetic resonance (27 Al MAS NMR), temperature-programmed desorption of ammonia (NH 3-TPD), and infrared spectroscopy of adsorbed ...

Deactivation And Regeneration Of Zeolite

The authors have proved that after one pyrolysis experiment the zeolite loses quite a lot of its activity, which is reflected in both the yields and the products quality; however, this deactivation was found to be reversible since after regeneration heating at 550 °C in oxygen atmosphere, this catalyst recovered its initial activity, generating similar products and in equivalent proportions ...

Deactivation and regeneration of ZSM-5 zeolite in ...

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Deactivation and regeneration of zeolite catalysts ...

Deactivation and Regeneration of Zeolite Catalysts 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.

Deactivation and Regeneration of H-USY Zeolite during ...

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Catalytic Science Series Deactivation and Regeneration of Zeolite Catalysts, pp. 235-251 (2011) No Access DEACTIVATION AND REGENERATION OF FCC CATALYSTS H. S. Cerqueira

Visualization of Structural Changes During Deactivation ...

The focus is on zeolite catalysts, which are widely used in refining, petrochemicals, and organic chemical synthesis. The topics include the deactivation and regeneration of solid catalysts, characterizing aged zeolite catalysts, modes of coke formation and deactivation, regenerating coked zeolite catalysts, hydrocracking, and deactivating molecular sieves in the synthesis of organic chemicals.

DEACTIVATION AND REGENERATION OF FCC CATALYSTS ...

Reaction-regeneration cycles confirm that catalysts totally recover the activity through combustion of coke during a heating ramp up to 550 °C. Insight into the Deactivation and Regeneration of HZSM-5 Zeolite Catalysts in the Conversion of Dimethyl Ether to Olefins | Industrial & Engineering Chemistry Research

Deactivation and Regeneration of Zeolite Catalysts - M ...

In experiments conducted following reaction−regeneration (by coke combustion) cycles, it has been proven that (i) at the reaction temperature of 450 °C, deactivation by dealumination of the zeolite in the reaction stage is important and (ii) this deactivation is due to the high water content in the reaction medium.

Deactivation and thermal regeneration of zeolite HZSM-5 ...

Deactivation caused by poisoning, fouling and deposition of heavy compounds is generally reversible, and therefore regeneration is possible, while in the case of chemical transformation, thermal ...

Deactivation and Regeneration of Zeolite Catalysts ...

1. Introduction. In this work, time-resolved selectivity is used as a key for understanding the reactions of retardate 1 formation during methanol conversion on zeolite HZSM-5, and also used for elucidating the reactions of retardate decomposition and thereby its chemical nature through a temperature-programmed thermal treatment. The nature of the retardate and the reactions of retardate ...

Deactivation And Regeneration Of Zeolite Catalysts

This study focused on the deactivation and regeneration of the H-USY zeolite. N 2 physisorption, thermogravimetric analysis (TGA), temperature-programmed desorption of NH 3 , and 27 Al MAS NMR analysis were used to determine coking, pore topology, and the number of acid sites of the deactivated and regenerated H-USY catalyst.

Deactivation of a HZSM-5 Zeolite Catalyst in the ...

Deactivation and regeneration of ZSM-5 zeolite in catalytic pyrolysis of plastic wastes Article in Waste Management 31(8):1852-8 · August 2011 with 164 Reads How we measure 'reads'

Deactivation and Regeneration of HZSM-5 Zeolite in ...

The technologies of catalysts deactivation, reduction, and regeneration for improving catalyst activity and stability are discussed. Some suggestions for future research including catalyst mechanism, catalyst development, process integration, and biomass modification for the production of hydrocarbon biofuels are provided.

Deactivation of Zeolites by Coking. Prevention of ...

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While over 1

Insight into the Deactivation and Regeneration of HZSM-5 ...
However, the zeolite underwent rapid deactivation. This paper reports the visualization of the structural changes during deactivation and regeneration of the zeolite is reported. The deactivated and regenerated zeolites were characterized by means of N 2 physisorption, electron microscopy, X-ray diffraction, magic angle spinning (MAS), and multiple quantum (MQ) nuclear magnetic resonance ...

Deactivation And Regeneration Of Zeolite Catalysts
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.

Deactivation and regeneration of ZSM-5 zeolite in ...
The regeneration of zeolites is generally carried out through coke combustion under an air or oxygen flow. The main difficulty is to limit the detrimental effects of water at high temperature on the active sites of the zeolite. Coke oxidation is, like coking and deactivation, a shape selective process.

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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.

Deactivation and regeneration of zeolite catalysts. - Free ...
The authors have proved that after one pyrolysis experiment the zeolite loses quite a lot of its activity, which is reflected in both the yields and the products quality; however, this deactivation was found to be reversible since after regeneration heating at 550 deg. C in oxygen atmosphere, this catalyst recovered its initial activity, generating similar products and in equivalent ...