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Deactivation and decoking of a naphtha reforming catalyst ...

An overview of deactivation mechanisms, their causes and consequences, as well as of methods and techniques of investigation of deactivation is presented. There are three fundamental reasons for catalyst deactivation, i.e. poisoning, coking or fouling and ageing. Poisoning can be reversible or irreversible, and with geometric or electronic effect.

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Volume 126 Issue 7 - July 2000. ... temperature, pH, initial concentration of dye and hydrogen peroxide, and deactivation of catalytic effect of fly ash) were studied. ... Received: January 28, 1999. Published online: July 01, 2000. ASCE Subject Headings: ...

Oxidative Decolorization of Reactive Dye Solution Using

...

The literature treating mechanisms of catalyst deactivation is reviewed. Intrinsic mechanisms of catalyst deactivation are many; nevertheless, they can be classified into six distinct types: (i) poisoning, (ii) fouling, (iii) thermal degradation, (iv) vapor compound formation accompanied by transport, (v) vapor-solid and/or solid-solid reactions, and (vi) attrition/crushing.

Mechanisms of catalyst deactivation - ScienceDirect

Volume 126, 1999, Pages 407-410. ... In consequence, one has to consider a deactivation of catalyst X67 which would result from the disappearance of silver active sites either by poisoning or by recovery by carbonaceous chlorinated residues. Such a mechanism is in agreement with the kinetic data presented in fig. 1 (b) and fig. 1 (a) after 20 h ...

Deactivation mechanisms and regeneration of a bimetallic ...

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Coking of solid acid catalysts and strategies for enhancing their activity. In: Delmon B, Froment GF, eds. Catalyst Deactivation 1999, Proceedings of the 8th International Symposium, Brugge, Belgium, 10-13 October, 1999, Studies in Surface Science and Catalysis Series Volume 126. Amsterdam, The Netherlands: Elsevier, 1999, pp. 63-77. R824729 (Final)

Research Project Publication Details | Coking and Activity

...

Ni-Al₂O₃ catalysts are prepared via the co-precipitation method using various precipitants: urea, Na₂CO₃, NaOH, K₂CO₃, KOH and NH₄OH. The effects of the precipitants on the physicochemical properties and catalytic activities of the Ni-Al₂O₃ catalysts are investigated. The Ni₅₀-urea catalyst displays the largest specific surface area and the highest pore volume.

The effect of precipitants on Ni-Al₂O₃ catalysts prepared

...

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Catalyst deactivation 1999 : proceedings of the 8th ...

The causes of deactivation are basically of three kinds: chemical, mechanical, and thermal. The five intrinsic mechanisms of catalyst decay, (1) poisoning, (2) fouling, (3) thermal degradation, (4) chemical degradation, and (5) mechanical failure, vary in their reversibility and

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We also tested Pt 3 Sn catalyst, the well-known catalyst selective for PDH 1,7, which gave lower conversion, selectivity, and stability (higher deactivation rate, Supplementary Table 5) than PtGa ...

Single-atom Pt in intermetallics as an ultrastable and ...

volume is also observed on the secondary ... (1999) 121-126. [18] B.M. Vogelaar, P. Steiner ... it was concluded that catalyst deactivation was caused by preferential coke deposition on the active ...

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