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Deactivation of Pt-Sn catalyst in propane dehydrogenation ...
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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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Catalyst Deactivation 2001 Published: 21st September ... Published: 3rd November 1999 Editors: ... Info/Buy. Volume 126, Catalyst Deactivation 1999 Published: 22nd September 1999 Editors: G.F. Froment B. Delmon. Info/Buy. Catalysis: An Integrated Approach Published: 7th ...

Book Series: Studies in Surface Science and Catalysis
Dowden, D.A., (1982) The catalytic effects of water and halogens on the alteration of catalyst surfaces, in J.L.Figueiredo (ed.), Progress in Catalyst Deactivation, Martinus Nijhoff Publishers, The Hague. 281.

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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
Deactivation is inevitable, but it can be slowed or prevented and some of its consequences can be avoided. In the following, the causes of catalyst deactivation will be reviewed and the chemico-physical aspects related to the various deactivation processes will be discussed, along with mathematical description of the deactivation phenomena. 1.1.

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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

Catalyst Deactivation and Regeneration - Bartholomew ...
Catalyst Deactivation 1999 8th International Symposium on Catalyst Deactivation Studies in Surface Science and Catalysis, Vol. 126 Edited by B. Delmon and G.F. Froment

of heterogeneous catalysts
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 ...
G.F. Froment. The Modeling of Catalyst Deactivation by Coke Formation, Catalyst Deactivation 1991. Proceedings of the 5th International Symposium, 10.1016/S0167-2991(08)62620-8, (53-83), (1991). Crossref

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Catalyst deactivation, the loss over time of catalytic activity or selectivity, is a problem of great economical concern in application of commercial catalytic ... Forzatti et al., 1999, Chen et al., 1992, Moulijn et al., 2001). Deactivation of catalysts have been investigated focusing on three industrial processes: 1) Selective Catalytic ...

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Catalysts | Special Issue : Advances in Catalyst Deactivation
Abstract. Proton, 13 C, and 129 Xe NMR were applied for characterizing the change of the tortuosity, the chemical structure of the coke, as well as the pore size during the deactivation and decoking of a commercial naphtha reforming catalyst (Pt/Re-Al 2 O 3).All experimental evidence indicates that a full recovery of the activity of the clean catalyst is not achieved by the regeneration ...

1H, 13C, and 129Xe NMR Study of Changing Pore Size and ...
Catalyst deactivation. Catalyst deactivation is defined as a loss in catalytic activity and/or selectivity over time. Substances that decrease reaction rate are called poisons. Poisons chemisorb to catalyst surface and reduce the number of available active sites for reactant molecules to bind to.

Heterogeneous catalysis - Wikipedia
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