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Description. Homogeneous catalysis made easy through real-world examples and illustrations. The field of homogeneous catalysis has grown dramatically over the past decade, boasting many new applications in the chemical, fine chemical, and pharmaceutical industries. This timely work offers a unified, easy-to-understand treatment of this challenging area of chemistry.

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research problems. Industrial applications of homogeneous catalysis are proven, and a much wider application in the future is anticipated. Numerous publications and patent applications testify to the fact that in both the academic and industrial research laboratories the growth in research activity in this area

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In chemistry, homogeneous catalysis is catalysis in a solution by a soluble

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catalyst. Homogeneous catalysis refers to reactions where the catalyst is in the same phase as the reactants, principally in solution. In contrast, heterogeneous catalysis describes processes where the catalysts and substrate are in distinct phases, typically solid-gas, respectively. The term is used almost exclusively to describe solutions and implies catalysis by organometallic compounds. Homogeneous catalysis is estab

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Homogeneous catalysts generally enter directly into the chemical reaction (by

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forming a new compound or complex with a reactant), but are released in their initial form after the reaction is complete, so that they do not appear in the net reaction equation.

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Sumit Bhaduri is an Indian organometallic chemist and was a senior scientific advisor to Reliance Industries. He is known for his studies on metal-carbonyl clusters and to the polymer-supported catalysis and is credited with the development of technology for the

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manufacture of Ziegler-Natta polypropylene catalyst which is in use with Reliance Industries. He has authored a book, Homogeneous Catalysis: Mechanisms and Industrial Applications and is an elected fellow of the Indian National Science A

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