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Catalysis on Zeolites and Zeolite-Like Materials, 3rd Edition

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The regular pore system of zeolites, with cavities and nanometric channels, as well as the resulting characteristic properties, predestine them for wide use as catalysts in chemical technology. Over the past several decades, progress in zeolite synthesis enabled the discovery of new zeolite types, which allowed for the development of new catalytic processes in the petrochemical industries. Moreover, new tools for zeolite modification have allowed for additional applications of zeolite-based catalysts in the field of environmental catalysis. The development of new mesoporous and micro/mesoporous or zeolite-like materials (e.g., metal–organic frameworks), as well as progress in computational chemistry and solid-state characterization techniques, demonstrates that the potential of ordered pore materials is still far from exhausted, and that further biocatalysis, electrocatalysis, photocatalysis, and micro/nanostructure technology indicate increasing interest in this class of substances.

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