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Zeolite pellets were inserted between two platinum electrodes and the resulting system was placed in a furnace to facilitate study of the electrochemistry of zeolites above 200°C (38-40,129-131). Zeolite particles were also compacted between two current collectors when used as solid electrolytes in batteries (33,34,132-142).

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the zeolite lattice to be rigid and that interactions of an alkane with the zeolite are dominated by the dispersive forces between pseudo atoms of the alkane (within the framework of the united-atom description) and the oxygen atoms of the zeolite. These interactions have been described by a Lennard-Jones potential (13,14).

Handbook of Zeolite Science and Technology

HANDBOOK OF. ZEOLITE SCIENCE AND. 1 'E CH N o LO GY. EDITED BY. SCOTT M. AUERBACH. University of Massachusetts Amherst Amherst, Massachusetts, U.S.A. KATHLEEN A. CARRADO PRABIR K. DUTTA. Argonne National Laboratory Argonne, Illinois, U.S.A. The Ohio State University Columbus, Ohio, U.S.A.

Handbook of Zeolite Science and Technology

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Handbook Of Zeolite Science And Technology [PDF, EPUB EBOOK]

Perfect zeolite crystals are physicochemically homogeneous but real, commercial zeolites can be energetically heterogeneous due to lattice defects, variations in the silica/ alumina ratio in the framework, presence of hydrated and dehydrated cations at different locations within the framework, nonuniform hydrolysis of the framework during regeneration, and presence of trace amounts of moisture.

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The adsorptive processes for categories 1 and 2 are designed to pass a feed gas mixture through a column packed with a zeolite (or several different zeolites in layers) in order to produce a product enriched in the more weakly adsorbed component followed by desorption of the strongly adsorbed component so that zeolite can be reused.

Handbook of Zeolite Science and Technology

Handbook of Zeolites: Structure, Properties and Applications (Materials Science and Technologies) UK ed. Edition by T. W. Wong (Author, Editor) ISBN-13: 978-1607410461

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Handbook of Zeolite Science and Technology Edited by Scott M. Auerbach (University of Massachusetts, Amherst), Kathleen A. Carrado (Argonne National Laboratory), Prabir K. Dutta (The Ohio State University). Marcel Dekker, Inc.: New York, Basel. 2003. xii + 1184 pp. \$235.00. ISBN 0-8247-4020-3. Kendall T. Thomson

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Zeolites The Handbook of Zeolite Science and Technology offers effective analyses of salient cases selected expressly for their relevance to current and prospective research.

Handbook of zeolite science and technology by Scott M ...

Summary Zeolites are microporous crystalline solids with well-defined structures. Generally they contain silicon, aluminium and oxygen in their framework and cations, water and/or other molecules within their pores. Many occur naturally as minerals, and are extensively mined in many parts of the world.

Handbook of zeolites : structure, properties and ...

Natural zeolites are mined in many parts of the world, but most of zeolites used at industrial level, are synthesized in alkaline mediums with different sources of silica and aluminum components. Zeolites find wide applications in different areas as waste treatment, gas purification, construction industry, etc.

Zeolite X Synthesis with Different Sources

Some traditional zeolites (such as zeolite 4A and "trapdoor" chabazite) (7 - 9) and microporous (metal-) organic materials (10 - 16) are known to show distinct temperature-dependent

adsorption...

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