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Commercial zeolites are generally available in bound forms where the zeolite crystals (1–5 Å) are formed in regular particle shapes (beads, pellets, extrudates, cloverleaf design, etc.) using a binder material (clay, alumina, polymers, etc.).

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The Handbook of Zeolite Science and Technology offers effective analyses of salient cases selected expressly for their relevance to current and prospective research. Presenting the principal theoretical and experimental underpinnings of zeolites, this international effort is at once complete and forward-looking, combining fundamental concepts with the most sophisticated data for each scientific subtopic and budding technology. Supplying over 750 figures, and 350 display equations, this impressive achievement in zeolite science observes synthesis through the lens of MFI (ZSM-5 and silicalite). Chapters progress from conceptual building blocks to complex research presentations.

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"Handbook of Natural Zeolites provides a comprehensive and updated summary of all important aspects of natural zeolites science and technology. The e-book contains four sections covering the relevant scientific background, established technologies, recent "

Zeolites and related microporous materials are used in oil processing and in the fine and petrochemical industries on a large scale. New applications of zeolites contribute to environmentally friendly processes and refined zeolites such as catalytic zeolite membranes and zeolites containing exhaust-pipe reactors are being introduced. Recent diversity in zeolite research has been fueled by the increase in number of microporous materials and the combination with interfacing science areas. The possibility to accommodate ions, large molecules or nanostructures in the crystalline matrix has been explored and the performance of electronic, acoustic and photonic modified response of the materials has been tested. This volume provides up-to-date information on new zeolite and related materials and composites, their applications, testing of new processes and techniques, and promising laboratory results as well. A vast amount of work from a fundamental aspect is incorporated. In particular, the combination of science and application offers useful information for readers interested in molecular sieves.

This volume was conceived as a handbook for the Pre-Conference Summer School on Zeolites, held in Taejon, Korea. The 11th IZC Summer School was organized to acquaint those already actively working in zeolite science and technology with the latest developments and to develop new prospects of zeolite science and technology for the 21st century. The aim of this volume is to give an extensive review and analysis of the important new findings of the last 10 years on the synthesis, characterization and applications of zeolite materials as well as the prediction of new R&D directions for the next decade.

This handbook is the only up-to-date, A to Z compilation of commercial and research zeolites. The volume presents complete patent-researched reference information on structural data, synthesis parameters, and characteristic properties. For each known zeolite there is an entry on all organics which crystallize a given structure, physical data, and applications. Data is presented in tabular or graphical form with minimal text, and a cross-referenced literature review is provided.

Quartz, zeolites, gemstones, perovskite type oxides, ferrite, carbon allotropes, complex coordinated compounds and many more -- all products now being produced using hydrothermal technology. Handbook of Hydrothermal Technology brings together the latest techniques in this rapidly advancing field in one exceptionally useful, long-needed volume. The handbook provides a single source for understanding how aqueous solvents or mineralizers work under temperature and pressure to dissolve and recrystallize normally insoluble materials, and decompose or recycle any waste material. The result, as the authors show in the book, is technologically the most efficient method in crystal growth, materials processing, and waste treatment. The book gives scientists and technologists an overview of the entire subject including: À Evolution of the technology from geology to widespread industrial use. À Descriptions of equipment used in the process and how it works. À Problems involved with the growth of crystals, processing of technological materials, environmental and safety issues. À Analysis of the direction of today's technology. In addition, readers get a close look at the hydrothermal synthesis of zeolites, fluorides, sulfides, tungstates, and molybdates, as well as native elements and simple oxides. Delving into the commercial production of various types, the authors clarify the effects of temperature, pressure, solvents, and various other chemical components on the hydrothermal processes. Gives an overview of the evolution of Hydrothermal Technology from geology to widespread industrial use Describes the equipment used in the process and how it works Discusses problems involved with the growth of crystals, processing of technological materials, and environmental and safety issues

This first book to offer a practical overview of zeolites and their commercial applications provides a practical examination of zeolites in three capacities. Edited by a globally recognized and acclaimed leader in the field with contributions from major industry experts, this handbook and ready reference introduces such novel separators as zeolite membranes and mixed matrix membranes. The first part of the book discusses the history and chemistry of zeolites, while the second section focuses on separation processes. The third and final section treats zeolites in the field of catalysis. The three sections are unified by an examination of how the unique properties of zeolites allow them to function in different capacities as an adsorbent, a membrane and as a catalyst, while also discussing their impact within the industry.

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