

## Introduction To Zeolite Science And Practice Volume 168 Third Edition Studies In Surface Science And Catalysis By Jiri Cejka 2007 10 16

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Its 16 chapters, each written by specialists, provide detailed treatments of zeolite theory (including a review of major developments), zeolite laboratory and research practice, and zeolite industry applications. Students and individuals entering the field will find Introduction to Zeolite Science and Practice a thorough guidebook.

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Introduction to Zeolite Science and Practice by E.M ...

ZEOLITES is not a book about an esoteric science subject because the many kinds of zeolites (which function as molecular sieves and catalysts) are very much part of the modern world. For the general public (recently including myself), how does something that underpins nearly every aspect of our modern world fly under the radar?

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Synopsis: Introduction to Zeolite Molecular Sieves, 3rd Edition presents a collection of the most important results and ideas in the field of molecular sieve chemistry and technology, the most important experimental techniques related to the research activities in molecular sieves, and identifies new areas of molecular sieve chemistry. Chapters start at a reasonably simple entry level, but also covers the present state-of-the-art in the field.

Introduction to Zeolite science and practice, Volume 168 ...

General trend of the zeolite acid catalyst is explained as an introduction. Species, structure, and industrial application of the zeolites are explained. Function of zeolites as a catalyst is based on three important properties: solid acidity, shape selectivity, and loading property.

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Introduction to zeolite science and practice (eBook, 2007 ...

Students and individuals entering the field will find "Introduction to Zeolite Science and Practice" a thorough guidebook. Experienced researchers will appreciate its in-depth coverage of the zeolite spectrum, including the latest views on zeolite structure, characterization and applications.

Introduction to Zeolite Science and Practice: Volume 58 ...

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In view of the substantial progress made in the last decade in the fields of zeolites and related materials it was decided to go for an extended 2nd Edition of "Introduction to Zeolite Science and Practice". Unfortunately - as often is the case - this process took more time than expected by the Editors. In the mean time some new texts on zeolites were issued. Nevertheless, the combination of data, discussion and dedication provided by the present book is a unique coverage of the field, in the opinion of the Editors. In the present Edition the number of chapters rose from 16-22. The contributions can be divided into three categories: updated chapters by the original authors, updated chapters by an expanded or new team of authors and completely new chapters. This 2nd Edition also contains new chapters on "Zeolite-based supramolecular assemblies" (by Dirk De Vos and Pierre Jacobs, experts in this area) and on "The use of bulky probe molecules" (by Paul Kunkeler, Roger Downing and one of the Editors). Finally, the super large pore zeolites and the fast growing area of ordered mesoporous materials are dealt with by Eelco Vogt, Charlie Kresge and and Jim Vartuli. The latter two authors belong to the discoverers of the M41S family of mesoporous materials.

Introduction to Zeolite Molecular Sieves, 3rd Edition presents a collection of the most important results and ideas in the field of molecular sieve chemistry and technology, the most important experimental techniques related to the research activities in molecular sieves, and identifies new areas of molecular sieve chemistry. Chapters start at a reasonably simple entry level, but also covers the present state-of-the-art in the field. Topics covered include structure, synthesis, characterization, ion exchange, adsorption, diffusion, separations, and natural zeolites. \* 6 years since the last edtion this book brings together the rapid development within the field of molecular sieve chemistry and applications \* Accessible to newcomers to the field, also containing valuable information for experienced researchers \* 27 chapters written by renowned scientists in their field, including updates on some 2nd edition chapters

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.

Introduction to Zeolite Molecular Sieves, 3rd Edition presents a collection of the most important results and ideas in the field of molecular sieve chemistry and technology, the most important experimental techniques related to the research activities in molecular sieves, and identifies new areas of molecular sieve chemistry.

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The Handbook of Zeolite Science and Technology offers effective analyses ofsalient 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

This book, written and edited by leading authorities from academia and industrial groups, covers both preventive- and curative-zeolite-based technologies in the field of chemical processing. The opening chapter presents the state of the art in zeolite science. The two subsequent chapters summarize the chemistries involved in the processes and the constraints imposed on the catalyst/adsorbent. Three major areas are covered: oil refining, petrochemicals and fine chemicals. A chapter on the (curative) use of zeolites in pollution abatement completes this overview. In the area of oil refining, a general lecture sets the scene for present and future challenges. It is followed by in-depth case studies involving FCC, hydrocracking and light naphtha isomerization. Also, an entire chapter is devoted to the often-overlooked subject of base oils. In the area of petrochemicals, the processing of aromatics and olefins is described and special attention is paid to the synergy between catalysis and separation on molecular sieves. Contents:Introduction to Zeolite Science and Technology (M Guisnet & J-P Gilson)The Chemistry of Catalytic Processes (A Corma & A Martínez)Preparation of Zeolite Catalysts (T G Roberie et al.)Refining Processes: Setting the Scene (R H Jensen)Advances in Fluid Catalytic Cracking (E T Habib et al.)Hydrocracking (J A R Van Veen)C4-C6 Alkane Isomerisation (F Schmidt & E Köhler)Base Oil Production and Processing (M Daage)Para-Xylene ManufacturingCatalytic Reactions and Processes (F Alario & M Guisnet)Separation of Paraxylene by Adsorption (A Méthivier)Aromatic Alkylation: Towards Cleaner Processes (J S Beck et al.)Methanol to Olefins (MTO) and Beyond (P Barger)Zeolite Effects on Catalytic Transformations of Fine Chemicals (D E De Vos & P A Jacobs)Functionalization of Aromatics over Zeolite Catalysts (P Marion et al.)Zeolites and 'Non-Zeolite' Molecular Sieves in the Synthesis of Fragrances and Flavors (W F Hoelderich & M C Laufer)Pollution Abatement Using Zeolites: State of the Art and Further Needs (G Delahay & B Coq) Readership: Undergraduates, graduate students, academics and researchers in catalyst chemistry. Reviews:"Chapter authors have provided a teaching text that gives excellent introductory chapters to zeolites, and to the nature and significance of the processes that they can catalyse ... This excellent book should be required reading for all scientists who have an interest in improving the environment."Chemistry & Industry

Zeolites and related molecular sieves have quickly become important pathways to new opportunities in the fields of oil processing and petrochemical synthesis. The signs of intense activity in both industry and academia are evident: burgeoning papers and patent applications; increasing numbers of industrial zeolite-based processes and their rapid expansion into organic chemicals manufacturing; recent progress in zeolite accessibility range, matrix behaviour, lattice components and satellite structures; and the recognition that zeolites, which are stable and can be regenerated, may be incorporated into new, environmentally friendly processes. This volume offers a thorough, up-to-date introduction to zeolites and such related materials as crystalline aluminium phosphates and clays. Its 16 chapters, each written by specialists, provide detailed treatments of zeolite theory (including a review of major developments), zeolite laboratory and research practice, and zeolite industry applications. Students and individuals entering the field will find Introduction to Zeolite Science and Practice a thorough guidebook. Experienced researchers will appreciate its in-depth coverage of the zeolite spectrum, including the latest views on zeolite structure, characterization and applications.

This book provides a comprehensive introduction to zeolite science. Synthetic zeolites are important major catalysts in the oil industry, they are also important in the separation of gases from the air, in the treatment of nuclear wastes and as a component in detergents. In addition they are natural minerals with a unique role in mineralogy and occurrences throughout the world. The book assesses the importance of zeolites in all these applications.

"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 "

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