

# ATLAS OF ZEOLITE FRAMEWORK TYPES

Ch. Baerlocher  
W.M. Meier  
D.H. Olson

Fifth Revised Edition  
2001

Published on behalf of the  
Structure Commission of the International Zeolite Association

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# Atlas Of Zeolite Framework Types

**Thomas Griffiths**



## **Atlas Of Zeolite Framework Types:**

**Atlas of Zeolite Framework Types (formerly: Atlas of Zeolite Structure Types)** Ch. Baerlocher, D.H. Olson, W.M. Meier, 2001-06-06 The atlas contains an entry for each unique zeolite framework type The term zeolite framework refers to a corner sharing network of tetrahedrally coordinated atoms This 5th edition is again an updated version of the previous compilation and the number of entries has risen significantly to 133

**Atlas of Zeolite Framework Types** Ch. Baerlocher, Lynne B. McCusker, D.H. Olson, 2007-09-12 Zeolite scientists whether they are working in synthesis catalysis characterization or application development use the Atlas of Zeolite Framework Types as a reference It describes the main features of all of the confirmed zeolite framework structures and gives references to the relevant primary structural literature Since the last edition 34 more framework types have been approved and are described in this new edition A further new feature will be that characteristic building units will be listed for each of the framework types Zeolites and their analogs are used as desiccants as water softeners as shape selective acid catalysts as molecular sieves as concentrators of radioactive isotopes as blood clotting agents and even as additives to animal feeds Recently their suitability as hosts for nanometer spacing of atomic clusters has also been demonstrated These diverse applications are a reflection of the fascinating structures of these microporous materials Each time a new zeolite framework structure is reported it is examined by the Structure Commission of the International Zeolite Association IZA SC and if it is found to be unique and to conform to the IZA SC's definition of a zeolite it is assigned a 3 letter framework type code This code is part of the official IUPAC nomenclature for microporous materials The Atlas of Zeolite Framework Types is essentially a compilation of data for each of these confirmed framework types These data include a stereo drawing showing the framework connectivity features that characterize the idealized framework structure a list of materials with this framework type information on the type material that was used to establish the framework type and stereo drawings of the pore openings of the type material Clear stereo drawings of each of the framework types Description of the features of the framework type allowing readers to quickly see if the framework type is suitable to their needs References to isotopic materials readers can quickly identify related materials and consult the appropriate reference

**Atlas of Zeolite Framework Types. 5th Revised Edition (Formerly Atlas of Zeolite Structure Types).** , 2001 [Compendium of Zeolite Framework Types](#) Henk van Koningsveld, 2007-07-20 This compendium describes all known zeolite framework types The first part gives a pictorial description of how the framework can be built using periodic building units PerBUs The PerBUs are built from smaller units composed of a limited number of T atoms such as Si Al P Ga B Be etc by applying simple operations to the smaller unit e.g translation rotation The zeolite framework types are analysed in terms of these component PerBUs The second part covers the larger cages cavities and or channels in the zeolite framework together with the framework type codes FTCs in which they appear In addition two appendices are included for easy referencing Two appendices are added The first giving a survey of cages as type

characteristics with their FTCs The second summarizing those channels and cavities that appear in more than one framework type The Compendium of Zeolite Framework Types contains complementary information to the data in the Atlas of Zeolite Framework Types Baerlocher et al 2001 Elsevier London The latter contains the topological symmetry unit cell data and pore dimensions How zeolites can be built using simple building units Description of the channels and cages in all zeolites known to date Survey of those channels and cages that appear in more than one zeolite **Atlas of Zeolite Structure Types** Walter Meier,David Olson,1992-01-01 **Atlas of Zeolite Framework Types** ,2001 Atlas of Zeolite Structure Types Walter M. Meier,D. H. Olson,1978 *Handbook of Zeolite Science and Technology* Scott M. Auerbach,Kathleen A. Carrado,Prabir K. Dutta,2003-07-31 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 **Atlas of Zeolite Structure Types** Walter M. Meier,David Olson,Christian Baerlocher,Ch Baerlocher,1996-01-01 Atlas of Zeolite Structure Types Walter M. Meier,David Olson,1987 An updated and expanded version of the 2nd edition 1988 which comprised 64 entries the 3rd edition contains 85 entries based on information available to the authors by the end of 1991 Published on behalf of the Structure Commission of the International Zeolite Association Annotation copyright by Book News Inc Portland OR *Introduction to Zeolite Science and Practice* P.A. Jacobs,E.M. Flanigen,J.C. Jansen,Herman van Bekkum,2001-06-26 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 Fundamentals of Water Treatment Unit Processes David Hendricks,2016-04-19 Carefully designed to balance coverage of theoretical and practical principles Fundamentals of Water Treatment Unit Processes delineates the principles that support practice using the unit processes approach as the organizing concept The author covers principles common to any kind of water treatment for example drinking water municipal wastew **International Tables for Crystallography, Volume H** Christopher J. Gilmore,James A. Kaduk,Henk

Schenk, 2019-09-16 Die Pulverdiffraktion ist in der Kristallographie die am weitesten verbreitete Methode. Die Anwendungen umfassen sämtliche Bereiche der Strukturwissenschaften. Dieser neue Band aus der Reihe International Tables deckt alle Aspekte des Verfahrens in über 50 Kapiteln ab. Autoren sind Experten des Fachgebiets. Dieser Band umfasst sieben Teile mit folgenden Inhalten: Überblick über die Prinzipien der Pulverdiffraktion, Erläuterung der bei der Pulverdiffraktion eingesetzten Strahlungsquellen, Instrumente und Ausrüstung, Einsatz unterschiedlicher Probenumgebungen und Methoden der Probenvorbereitung, Information zu Methoden einschließlich Datenverarbeitung, Indexierung und Reduktion, Whole Pattern Modellierung und quantitative Analyse sowie Überblick über die relevanten Datenbanken der Kristallographie. Fokus auf Strukturbestimmung einschließlich Methoden im realen und reziproken Raum sowie Methode der maximalen Entropie, Strukturverfeinerung und Strukturvalidierung, Erläuterung von Defekten, Textur, Mikrostruktur und Fasern einschließlich Belastung und Beanspruchung, Domänen und Dünnschicht, Untersuchung der für die Pulverdiffraktion verfügbaren Software, Beschreibung der Anwendungsmöglichkeiten in vielen wichtigen Bereichen: Industrie und Wissenschaften einschließlich Makromoleküle, Mineralien, Keramik, Zement, Polymere, Forensik, Archäologie und Pharmazeutika sowie Erklärung von Theorie und Anwendungen. Band H ist das wichtigste Referenzwerk für alle, die im Bereich Pulverdiffraktion tätig sind, ob Anfänger und erfahrener Praktiker. Wurde für die Praxis entwickelt, ohne Sorgfalt und Genauigkeit zu vernachlässigen. Die Methode der Pulverdiffraktion wird anhand vieler Beispiele ausführlich behandelt. Die Beispieldaten stehen teilweise als Download zur Verfügung.

**Zeolites in Catalysis** Jiří Čejka, Russell E. Morris, 2017-06-07 Accessible references for researchers and industrialists in this exciting field covering both developments and applications of catalysis. Aluminum Silicates—Advances in Research and Application: 2013 Edition, 2013-06-21 Aluminum Silicates Advances in Research and Application 2013 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Kaolin in a concise format. The editors have built Aluminum Silicates Advances in Research and Application 2013 Edition on the vast information databases of ScholarlyNews. You can expect the information about Kaolin in this book to be deeper than what you can access anywhere else as well as consistently reliable, authoritative, informed and relevant. The content of Aluminum Silicates Advances in Research and Application 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions and companies. All of the content is from peer-reviewed sources and all of it is written, assembled and edited by the editors at ScholarlyEditions and available exclusively from us. You now have a source you can cite with authority, confidence and credibility. More information is available at <http://www.ScholarlyEditions.com>.

Computer Simulation of Porous Materials Kim E. Jelfs, 2021-09-08 This book covers key approaches in the modelling of porous materials with a focus on how these can be used for structure prediction and to rationalise or predict a range of properties. *Introduction to Zeolite Science and Practice* E.M. Flanigen, J.C. Jansen, Herman van Bekkum, 1991-02-05 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

**Recent Advances in the Science and Technology of Zeolites and Related Materials** C. Claeys, 2004 Recent Advances in Science and Technology of Zeolites and Related Materials is a collection of oral and poster communications presented during the 14th International Zeolite Conference IZC The conference was hosted by the Catalysis Society of South Africa In the tradition of the IZC series this Conference provides a forum for the presentation of new knowledge in the science and technology of zeolites and related materials Papers presented cover a wide range of topics that include synthesis structure determination characterisation modelling and catalysis This highly visual book is a must for readers looking to stay up to date on zeolite science This three part volume provides valuable information on zeolites and related materials Includes papers that cover topics such as structure determination modelling and separation processes Contains new and exciting developments in the field

**Macroeconomics for Business and Society** Francis Gerard Adams, 2002 In recent years the world economy has been undergoing drastic changes the East Asian miracle the financial crisis and today globalization and the fundamental changes associated with the new economy This book integrates these developments with macroeconomics for business managers and policymakers Macroeconomics is essential background for the business manager and policymaker Consequently macroeconomics is an integral part of the business curriculum in mature and developing countries alike And well it should be The economy affects decisions by investors manufacturers distributors importers and exporters etc in all parts of the world Often it is the difference between growth and profitability on one hand and stagnation or failure on the other In recent years as the world economy has undergone overwhelming changes especially in East Asia and now in the advanced countries understanding what is going on in the local economy and out there in the world has become a particular challenge to managers The new developments of which the new economy is the most recent one do not supercede the basic theoretical framework of macroeconomics But they add greatly to the challenge of understanding the economic situation and to its uncertainty This book was originally written to meet the needs of a business curriculum based on the program at the Sasin

Graduate Institute of Business Administration of Chulalongkorn University in Bangkok in collaboration with the Wharton and Kellogg Business Schools in the United States The book is intended for a broad audience both domestic and international that includes mature MBA business students intermediate level undergraduates and informed laypersons      **The Chemistry Of Nanostructured Materials** Peidong Yang, 2003-12-23 This important book reviews extensively the preparative chemistry of various nanostructured materials as well as structural property correlations for these new materials Materials of current interest such as nanocrystals nanowires nanotubes porous materials and composites are comprehensively covered

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