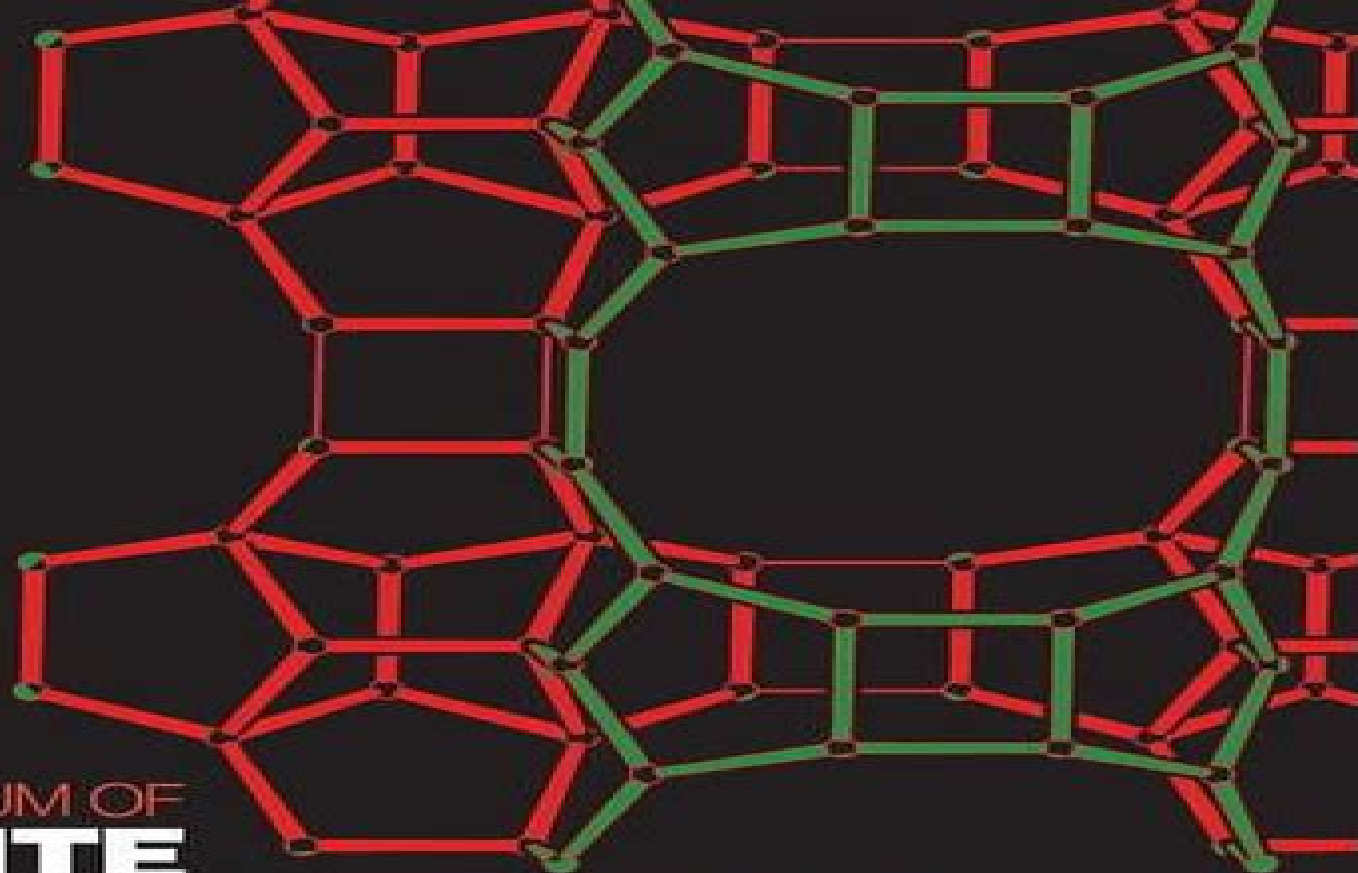
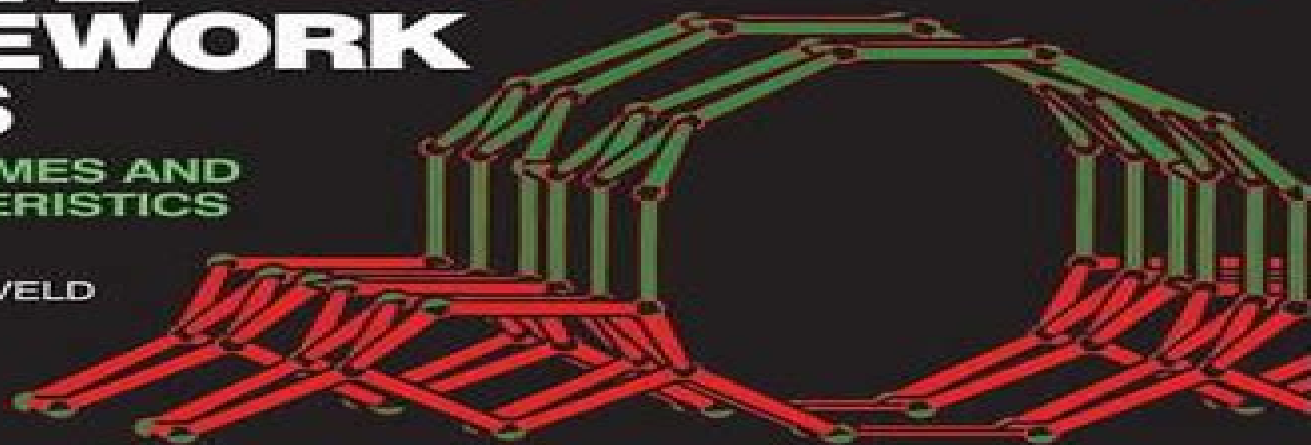




COMPENDIUM OF
**ZEOLITE
FRAMEWORK
TYPES**

BUILDING SCHEMES AND
TYPE CHARACTERISTICS

HENK VAN KONINGSVELD



Compendium Of Zeolite Framework Types Building Schemes And Type Characteristics

Santi Kulprathipanja



Compendium Of Zeolite Framework Types Building Schemes And Type Characteristics:

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 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 isotypic materials readers can quickly identify related materials and consult the

appropriate reference Highlights in Applied Mineralogy Soraya Heuss-Aßbichler, Georg Amthauer, Melanie John, 2017-12-18 What can we learn from nature The study of the physical chemical and structural properties of well known minerals in the geo and biosphere creates new opportunities for innovative applications in technology environment or medicine This book highlights today's research on outstanding minerals such as garnets used as components in all solid state batteries delafossite formation during wastewater treatment monazites for the immobilization of high level radioactive waste or hydroxylapatite as bioactive material for medical implant applications Contents Part I High technology materials Lithium ion conducting oxide garnets Olivine type battery materials Natural and synthetic zeolites Microstructure analysis of chalcopyrite type CuInSe_2 and kesterite type $\text{Cu}_2\text{ZnSnSe}_4$ absorber layers in thin film solar cells Surface engineered silica via plasma polymer deposition Crystallographic symmetry analysis in NiTi shape memory alloys Part II Environmental mineralogy Gold silver and copper in the geosphere and anthroposphere can industrial wastewater act as an anthropogenic resource Applied mineralogy for recovery from the accident of Fukushima Daiichi Nuclear Power Station Phosphates as safe containers for radionuclides Immobilization of high level waste calcine radwaste in perovskites Titanate ceramics for high level nuclear waste immobilization Part III Biomineralization biomimetics and medical mineralogy Patterns of mineral organization in carbonate biological hard materials Sea urchin spines as role models for biological design and integrative structures Nacre a biomineral a natural biomaterial and a source of bio inspiration Hydroxylapatite coatings applied mineralogy research in the bioceramics field A procedure to apply spectroscopic techniques in the investigation of silica bearing industrial materials Zeolites in Industrial Separation and Catalysis Santi Kulprathipanja, 2010-01-26 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 *From Zeolites to Porous MOF Materials - the 40th Anniversary of International Zeolite Conference, 2 Vol Set* Ruren Xu, Jiesheng Chen, Zi Gao, Wenfu Yan, 2007-07-12 The Proceedings of the 15th International Zeolite Conference contain 291 full papers including the full papers of 5 plenary lecture 12 keynote lectures and 4 invited lectures at the R M Barrer Symposium The topics of these full papers include synthesis modifications structures characterization adsorption separation and diffusion catalysis host guest chemistry and advanced materials industrial applications theory and modeling mesostructured materials MOF materials and natural zeolites The other 271 full papers were selected from the about 1000 contributions submitted to the 15th IZC Most

recent research results in zeolite science Full indexes Wide coverage of zeolite science and technology **Environmentally Friendly Zeolites** Rafael Chaves Lima,Lindiane Bieseki,Paloma Vinaches Melguizo,Sibele Berenice Castellã Pergher,2019-05-24 This book details zeolites their structures and the parameters that influence their synthesis providing a new and actual perspective of this field Following this the authors show different processes used to synthesize zeolites using residues natural materials and other eco friendly materials such as raw powder glass clays aluminum cans diatomites rice ashes or coal ashes Finally this book gives the reader a wide range of different synthesis methods that they can be applied to several industrial processes **Handbook of Natural Zeolites** Vassilis J. Inglezakis,Antonis A. Zorpas,2012 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 **Celebrating the International Year of Mineralogy** Luca Bindi,Giuseppe Cruciani,2023-05-06 This volume celebrates mineral sciences and what are considered the most important progresses and breakthroughs in this discipline Authoritative authors who in most cases are the direct discoverers recount the steps of their research which represent landmark developments of mineralogy and mineralogical crystallography The British National Bibliography Arthur James Wells,2007 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

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