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the inventor in 1979 of geopolymers and the chemistry of geopolyme-rization. He has authored/co-authored hundreds scientiıc papers, reports, and dozen of books, holds more than 50 patents and has written in 2008 the reference book Geopolymer Chemistry and Ap-plications,5th edition issued in 2020. Since 2009, he is the Chairman

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Written by Joseph Davidovits, the inventor and founder of geopolymer science, Geopolymer Chemistry and Applications is an introduction to the subject for the newcomers, students, engineers and professionals. You will find science, chemistry, formulas and very practical information (including patents' excerpts) covering: ...

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Today the primary application of geopolymer technology is in the development of reduced-CO2 construction materials as an alternative to Portland-based cements. Geopolymers: structure, processing, properties and industrial applications reviews the latest research on and applications of these highly important materials.

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Geopolymer chemistry and applications by Joseph Davidovits
Geopolymers are inorganic, typically ceramic, materials that form long-range, covalently bonded, non-crystalline networks. Obsidian fragments are a component of some geopolymer blends. Commercially produced geopolymers may be used for fire- and heat-resistant coatings and adhesives, medicinal applications, high-temperature ceramics, new binders for fire-resistant fiber composites, toxic and radioactive waste encapsulation and new cements for concrete. The properties and uses of geopolymers are b

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Geopolymer Chemistry And Applications 4th Ed PDF
Geopolymer Chemistry and Applications 5th Ed Written by Joseph Davidovits, the inventor and founder of geopolymer science, Geopolymer Chemistry and Applications is an introduction to the subject for the newcomers, students, engineers and professionals. You will find science, chemistry, formulas and very practical information.

What can be done about the major concerns of our Global Economy on energy, global warming, sustainable development, user-friendly processes, and green chemistry? Here is an important contribution to the mastering of these phenomena today. Written by Joseph Davidovits, the inventor and founder of geopolymer science, it is an introduction to the subject for the newcomers, students, engineers and professionals. You will find science, chemistry, formulas and very practical information (including patents' excerpts) covering: - The mineral polymer concept: silicones and geopolymers, - Macromolecular structure of natural silicates and aluminosilicates, - Scientific Tools, X-rays, FTIR, NMR, - The synthesis of mineral geopolymers, Poly(siloxonate) and polysilicate, soluble silicate, Chemistry of (Na, K)-oligo-sialates: hydrous alumino-silicate gels and zeolites, Kaolinite / Hydrosodalite-based geopolymer, Metakaolin MK-750-based geopolymer, Calcium-based geopolymer, Rock-based geopolymer, Silica-based geopolymer, Fly ash-based geopolymer, Phosphate-based geopolymer, Organic-mineral geopolymer, - Properties: physical, chemical and long-term durability, - Applications: Quality controls, Development of user-friendly systems, Castable geopolymer, industrial and decorative applications, Geopolymer / fiber composites, Foamed geopolymer, Geopolymers in ceramic processing, Manufacture of geopolymer cement, Geopolymer concrete, Geopolymers in toxic and radioactive waste management. It is a textbook, a reference book instead of being a collection of scientific papers. Each chapter is followed by a bibliography of the relevant published literature including 80 patents, 125 tables, 363 figures, 560 references, 720 authors cited, representing the most up to date contributions of the scientific community. The industrial applications of geopolymers with engineering procedures and design of processes are also covered in this book

What can be done about the major concerns of our Global Economy on energy, global warming, sustainable development, user-friendly processes, and green chemistry? Here is an important contribution to the mastering of these phenomena today. Written by Joseph Davidovits, the inventor and founder of geopolymer science, it is an introduction to the subject for the newcomers, students, engineers and professionals. You will find science, chemistry, formulas and very practical information (including patents' excerpts) covering: - The mineral polymer concept: silicones and geopolymers, - Macromolecular structure of natural silicates and aluminosilicates, - Scientific Tools, X-rays, FTIR, NMR, - The synthesis of mineral geopolymers, Poly(siloxonate) and polysilicate, soluble silicate, Chemistry of (Na, K)oligo-sialates: hydrous alumino-silicate gels and zeolites, Kaolinite / Hydrosodalite-based geopolymer, Metakaolin MK-750-based geopolymer, Calcium-based geopolymer, Rock-based geopolymer, Silica-based geopolymer, Fly ash-based geopolymer, Phosphate-based geopolymer, Organic-mineral geopolymer, - Properties: physical, chemical and long-term durability, - Applications: Quality controls, Development of user-friendly systems, Castable geopolymer, industrial and decorative applications, Geopolymer / fiber composites, Foamed geopolymer, Geopolymers in ceramic processing, Manufacture of geopolymer cement, Geopolymer concrete, Geopolymers in toxic and radioactive waste management. It is a textbook, a reference book instead of being a collection of scientific papers. Each chapter is followed by a bibliography of the relevant published literature including 75 patents, 120 tables, 360 figures, 550references, 700 authors cited, representing the most up to date contributions of the scientific community. The industrial applications of geopolymers with engineering procedures and design of processes are also covered in this book.

Theatre program.

The ultimate reference tool and lab partner for any student of science, durably laminated, authored and designed to fit as much info as possible in this handy 6-page format. Separate property tables are broken out for the ease of locating trends while studying and working while other pages offer essential notes about the table's organization and history. Consistently, a best seller since it's first creation, the lamination means you will have it for life and it can survive through chem lab. Topics covered include: 11 by 17 Inch Sized Periodic Table Extensive Properties Per Element on the Main Table Color Coded Diagram of a Table Square Defining Properties Major Families of Elements Biochemical Periodic Table Example of Long Version Table Periodic Trend Tables: Electronegativity Atomic Radius 1st Ionization Potential Electron Affinity Chemical Properties & Common Uses Major Natural Isotopes with Percentage of Occurrence

In this book, Professor Joseph Davidovits explains the intriguing theory that made him famous. He shows how the Pyramids were built by using re-agglomerated stone (a natural limestone treated like a concrete), and not with huge carved blocks, hauled on fragile ramps. Archaeology bears him out, as well as hieroglyphic texts, scientific analysis, religious and historical facts. Several independant scientific studies reveal the ultimate proofs that the pyramids blocks are not natural. You may find various papers or opinions challenging the theory, but all prefer ignoring these analysis. Believing or not in the artificial stone theory is now simply irrelevant. It is a fact, a truth that is still fought by some people for irrational purposes. Here we finally have the first complete presentation on how and why the Egyptian pyramids were built. We discover its brilliant creator, the great scribe and architect, Imhotep. Joseph Davidovits sweeps aside the conventional image which cripples Egyptology and delivers a captivating and surprising view of Egyptian civilisation. He charts the rise of this technology, its apogee with the Pyramids at Giza, and the decline. Everything is logical and brilliant, everything fits into place. Chapter by chapter, the revelations are sensational, especially when Joseph Davidovits explains why the pharaohs stopped building great pyramids because of an over-exploitation of raw materials and a likely environmental disaster. We understand why Cheops and Ramses II represent two Egyptian civilisations completely different in their beliefs. On the one hand, the God Khnum mandates Cheops to build his pyramid in agglomerated stone, while on the other hand, the God Amun orders Ramses to carve stone for the temples of Luxor and Karnak. 30 years after the best seller book: The Pyramids: an enigma solved, after 30 years of new research, and new discoveries, you will understand why the theory is more alive than ever, why more and more scientists and archaeologists agree, simply because it is the truth.

Joseph Davidovits explains the intriguing theory that made him famous. He shows how the Pyramids were built by using re-agglomerated stone (a natural limestone treated like a concrete), and not with huge carved blocks, hauled on fragile ramps. Archaeology bears him out, as well as hieroglyphic texts, scientific analysis, religious and historical facts. The author sweeps aside the conventional image which cripples Egyptology and delivers a captivating and surprising view of this civilisation; the first complete presentation on how the pyramids were built. The revelations are sensational, especially when he explains why the pharaohs stopped building great pyramids because of an over-exploitation of raw materials and a likely environmental disaster. He charts the rise of this technology, its apogee at Giza, and the decline. Everything is logical, everything fits into place.

Porous ceramics have recently gained growing importance in industry because of their many applications like filters, absorbers, dust collectors, thermal insulation, hot gas collectors, dielectric resonators, bioreactors, bone replacement and automobile engine components. Generally, porous ceramics have good properties such as mechanical strength, abrasion resistance, and chemical and thermal stability. These porous network ceramic structures also have relatively low density, low mass and low thermal conductivity. Furthermore, permeability is one of the most important properties of porous ceramics for different applications such as membranes because this property directly relates to the pressure drop during filtration. Pore size control is one key factor in fabrication of porous ceramics. The size of particles and their distribution of the raw materials, manufacturing techniques, types of binder used, distribution of binder, and sintering affect the final porosity and pore connectivity, are important things that must be considered during the manufacturing of a porous ceramic body. Therefore, the development of porous ceramic research requires sufficient mechanical and chemical stability as well as permeability. This book covers a wide range of topics such as porous ceramic structure and properties, preparation, simulation and fabrication, sintering, applications for bioceramics, sensors, magnetics and energy saving.

This book brings together the latest developments in chemically bonded phosphate ceramics (CBPCs), including several novel ceramics, from US Federal Laboratories such as Argonne, Oak Ridge, and Brookhaven National Laboratories, as well as Russian and Ukrainian nuclear institutes. Coupled with further advances in their use as biomaterials, these materials have found uses in diverse fields in recent years. Applications range from advanced structural materials to corrosion and fire protection coatings, oil-well cements, stabilization and encapsulation of hazardous and radioactive waste, nuclear radiation shielding materials, and products designed for safe storage of nuclear materials. Such developments call for a single source to cover their science and applications. This book is a unique and comprehensive source to fulfil that need. In the second edition, the author covers the latest developments in nuclear waste containment and introduces new products and applications in areas such as biomedical implants, cements and coatings used in oil-well and other petrochemical applications, and flame-retardant anti-corrosion coatings. Explores the key applications of CBPCs including nuclear waste storage, oil-well cements, anticorrosion coatings and biomedical implants Demystifies the chemistry, processes and production methods of CBPCs Draws on 40 years of developments and applications in the field, including the latest developments from USA, Europe, Ukraine, Russia, China and India

A geopolymer is a solid aluminosilicate material usually formed by alkali hydroxide or alkali silicate activation of a solid precursor such as coal fly ash, calcined clay and/or metallurgical slag. Today the primary application of geopolymer technology is in the development of reduced-CO2 construction materials as an alternative to Portland-based cements. Geopolymers: structure, processing, properties and industrial applications reviews the latest research on and applications of these highly important materials. Part one discusses the synthesis and characterisation of geopolymers with chapters on topics such as fly ash chemistry and inorganic polymer cements, geopolymer precursor design, nanostructure/microstructure of metakaolin and fly ash geopolymers, and geopolymer synthesis kinetics. Part two reviews the manufacture and properties of geopolymers including accelerated ageing of geopolymers, chemical durability, engineering properties of geopolymer concrete, producing fire and heat-resistant geopolymers, utilisation of mining wastes and thermal properties of geopolymers. Part three covers applications of geopolymers with coverage of topics such as commercialisation of geopolymers for construction, as well as applications in waste management. With its distinguished editors and international team of contributors, Geopolymers: structure, processing, properties and industrial applications is a standard reference for scientists and engineers in industry and the academic sector, including practitioners in the cement and concrete industry as well as those involved in waste reduction and disposal. Discusses the synthesis and characterisation of geopolymers with chapters covering fly ash chemistry and inorganic polymer cements Assesses the application and commercialisation of geopolymers with particular focus on applications in waste management Reviews the latest research on and applications of these highly important materials