

# Alternative Concrete – Geopolymer Concrete

Emerging Research and Opportunities

**Adrian LĂZĂRESCU, Henriette SZILÁGYI,  
Cornelia BAERĂ, Andreea HEGYI**

Monograph / PDF eBook DRM Free

The general aim of this book is to make significant contributions in understanding and deciphering the mechanisms of the realization of the alkali-activated fly ash-based geopolymer concrete.

*Keyword:* Concrete, Geopolymer Concrete, Alternative Concrete

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Summary:

Concrete is the most versatile, durable and reliable material and is the most used building material. It requires large amounts of Portland cement which has environmental problems associated with its production. Hence, an alternative concrete – geopolymer concrete is needed.

The general aim of this book is to make significant contributions in understanding and deciphering the mechanisms of the realization of the alkali-activated fly ash-based geopolymer concrete and, at the same time, to present the main characteristics of the materials, components, as well as the influence that they have on the performance of the mechanical properties of the concrete.

The book deals with in-depth research of the potential recovery of fly ash and using it as a raw material for the development of new construction materials, offering sustainable solutions to the construction industry.



## Full color print Book Information

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