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| 1. Record Nr. | UNINA9910298614503321 |
| Autore | Vickers Les |
| Titolo | Fire-Resistant Geopolymers : Role of Fibres and Fillers to Enhance Thermal Properties // by Les Vickers, Arie van Riessen, William D. A. Rickard |
| Pubbl/distr/stampa | Singapore : , : Springer Singapore : , : Imprint : Springer, , 2015 |
| ISBN | 981-287-311-2 |
| Edizione | [1st ed. 2015.] |
| Descrizione fisica | 1 online resource (135 p.) |
| Collana | SpringerBriefs in Materials, , 2192-1091 |
| Disciplina | 620.11 620.14 691 |
| Soggetti | Ceramics Glass Composites (Materials) Composite materials Building materials Structural materials Ceramics, Glass, Composites, Natural Materials Building Materials Structural Materials |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Overview -- History of Geopolymers -- Portland Cement (OPC) and Concrete -- Geopolymer Applications -- Precursors and Additives for Geopolymer Synthesis -- Geopolymer Chemistry -- Fibres: Technical Benefits -- Thermal Properties of Geopolymers -- Fire Resistance of OPC and geopolymer -- Conclusion. |
| Sommario/riassunto | The book covers the topic of geopolymers, in particular it highlights the relationship between structural differences as a result of variations during the geopolymer synthesis and its physical and chemical properties. In particular, the book describes the optimization of the thermal properties of geopolymers by adding micro-structural modifiers such as fibres and/or fillers into the geopolymer matrix. The |

range of fibres and fillers used in geopolymers, their impact on the microstructure and thermal properties is described in great detail. The book content will appeal to researchers, scientists, or engineers who are interested in geopolymer science and technology and its industrial applications.
