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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 Composite materials Building 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 geopolymers science and technology and its industrial applications.
