Preface

This review is designed to introduce the reader to some of the basic concepts of geopolymer (or alkali activated materials) science and technology with the aim of demonstrating the applicability of geopolymers as fire-resistant products. Although geopolymers have impressive fire-resistant properties, improvements can be made by adding fibres and/or fillers, and a considerable portion of this book is dedicated to this aspect of enhancing the thermal properties of these materials.

An important feature of geopolymers and their composite products is that they offer a real and superior alternative to products based on Ordinary Portland Cement (OPC). As such we have provided extensive information about OPC to enable comparisons to be made with geopolymer-based products.

This text is intended to fill a gap that exists between short and very specifically focussed research papers and lengthy textbooks that endeavour to cover all aspects of geopolymerisation. The contents of this book are targeted at those committed to promoting use of new materials with a low carbon footprint.



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