



Clay Based Geopolymers

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Processing & Characterization | CLAY BASED GEOPOLYMERS: Processing & Characterization provides information on the geopolymers process and the mechanism reaction involved. This book also includes a newly invented processing of geopolymeric powder. The resulted presented in this book were part of the experimental works at Center of Excellence Geopolymer System Research (GpRS@UniMAP). The text has thouroughly reviewed the historical background of alkali-activated binders, introduced kaolin as a prime material, described the reaction mechanism of kaolinite, and identified factors that affect the formation of this geopolymer. It covers the experimental data on the effect of various important factors (e.g. alkali concentration, clay-to-activator ratio, activator ratio, solidification process, curing conditions and etc.) on the processing and synthesis of the geopolymer cements and geopoymeric powder. Nevertheless, the characterization of the mechanical properties of the geopolymer cements and the geopolymeric powder were elucidated. It is hoped that future research in this field will drive a new era of greener materials in the construction industry. | Format: Paperback | Language/Sprache: english | 180 gr | 220x150x6 mm | 120 pp.



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