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high electrical resistant materials the book describes how the utilization of high carbon slag pond ash fly ash for making value added ceramics is useful for the electrical sectors since waste materials are currently endangering our environment ways of utilizing them have become a global challenge currently r d work is being carried out to utilize these materials for producing value added products this book details the investigations to utilize fly ash fa and pond ash pa both waste materials from thermal power plants with high carbon ferrochrome hcfc slag by product of the ferrochrome industry for producing a novel material for ceramics kaolin k feldspar is mixed with pa hcfc slag to produce ceramics with the formation of mullite the fa pa hcfc slag based ceramics can replace porcelain based ceramics and some permanent ceramic structures can be constructed with such wastes properties and structures made with ceramics are found to be comparable with those made with porcelain based ceramics performances of these materials above ambient temperature have been evaluated and results indicate the possible replacement of porcelain with these newly invented ceramics audience the book will be used by electrical and civil engineers in the electrical construction and ceramic industries as well as the industrial waste sector researchers in materials science structural civil and electrical engineering environmental science and ceramic engineering will also have high interest development of geopolymer from pond ash thermal powerplant waste explains how geopolymer technologies using industrial waste obtained from thermal power plants become cementitious materials in construction sectors for civil engineers utilization of waste materials has become a global challenge since they endanger our environment in this book the authors demonstrate how to utilize fly ash pond ash waste materials from thermal power plants to produce a novel material called geopolymer gp red mud slags etc are mixed with fly ash to produce gp with enhanced strength as shown in a few european countries gp can replace cement and some permanent structures constructed with gp are now appearing in a few advanced countries gp and geopolymer concrete is considered suitable for the construction of roads buildings etc and will eventually fully or partially replace cement the book highlights the mechanism of the formation of gp from pond ash properties of structures made with gp concrete are found to be comparable to those made with cement concrete systematic investigations are presented to understand the chemistry of gp formation with pond ash materials performances of these materials above ambient temperature as well as with different environmental conditions are also evaluated audience the book will be used by civil engineers in the construction and ceramic industries as well as the industrial waste sector researchers in materials science structural and civil engineering environmental science and ceramic engineering will also benefit additionally the book is suitable for graduate courses in civil engineering high electrical resistance ceramics pond and fly ash waste materials generated by thermal power stations pollute the environment this book demonstrates how the utilization of these materials minimizes environmental pollution and conserves land for cultivation this book highlights the preparation of ceramics using pond fly ash since the mullite phase formed by heat treatment improves the properties of ceramics current investigations will perhaps be the first attempt to develop ceramics using pond ash the properties of components made with these developed ceramics are found to be comparable to those made with porcelain the extensively reviewed chapters of this book illustrate the current status of research on these materials at the end of each of the 10 chapters conclusions are drawn which will benefit researchers working in this area subjects discussed include the fundamentals of thermal power plant wastes different production methods of ceramics and various characterization techniques the preparation of ceramics from fly ash and fly ash kaolin composite the production of ceramics using pond ash the preparation and characterization of geopolymer from pond ash and the preparation of pond ash composite production of ceramic matrix composite cmc using pond ash and pyrophyllite the preparation of ceramics using pond ash and k feldspar mixture audience the book will be used by civil engineers in the construction and ceramic industries as well as the industrial waste sector researchers in materials science structural civil and electrical engineering environmental science and ceramic engineering will also have interest industries that have an interest include construction electrical and ceramic

industries as well as pollution and waste sectors

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development of geopolymer from pond ash thermal powerplant waste explains how geopolymer technologies using industrial waste obtained from thermal power plants become cementitious materials in construction sectors for civil engineers utilization of waste materials has become a global challenge since they endanger our environment in this book the authors demonstrate how to utilize fly ash pond ash waste materials from thermal power plants to produce a novel material called geopolymer gp red mud slags etc are mixed with fly ash to produce gp with enhanced strength as shown in a few european countries gp can replace cement and some permanent structures constructed with gp are now appearing in a few advanced countries gp and geopolymer concrete is considered suitable for the construction of roads buildings etc and will eventually fully or partially replace cement the book highlights the mechanism of the formation of gp from pond ash properties of structures made with gp concrete are found to be comparable to those made with cement concrete systematic investigations are presented to understand the chemistry of gp formation with pond ash materials performances of these materials above ambient temperature as well as with different environmental conditions are also evaluated audience the book will be used by civil engineers in the construction and ceramic industries as well as the industrial waste sector researchers in materials science structural and civil engineering environmental science and ceramic engineering will also benefit additionally the book is suitable for graduate courses in civil engineering

Development of Geopolymer from Pond Ash-Thermal Power Plant Waste 2023-04-25

high electrical resistance ceramics pond and fly ash waste materials generated by thermal power stations pollute the environment this book demonstrates how the utilization of these materials minimizes environmental pollution and conserves land for cultivation this book highlights the preparation of ceramics using pond fly ash since the mullite phase formed by heat treatment improves the properties of ceramics current investigations will perhaps be the first attempt to develop ceramics using pond ash the properties of components made with these developed ceramics are found to be comparable to those made with porcelain the extensively reviewed chapters of this book illustrate the current status of research on these materials at the end of each of the 10 chapters conclusions are drawn which will benefit researchers working in this area subjects discussed include the fundamentals of thermal power plant wastes different production methods of ceramics and various characterization techniques the preparation of ceramics from fly ash and fly ash kaolin composite the production of ceramics using pond ash the preparation and characterization of geopolymer from pond ash and the preparation of pond

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