Coal Combustion Products (CCPs) - Tom Bull 2017-04-29 Coal Combustion Products (CCPs): Their Nature, Utilization and Beneficiation is a valuable resource for engineers and scientists from the coal, cement, concrete, and construction industries seeking an in-depth guide to the characteristics, utilization, beneficiation, and environmental impacts of coal combustion by-products. Researchers in universities working in this area will also find much to expand their knowledge. This book provides a detailed overview of the different waste materials produced during power generation technologies and their applications, and environmental impacts. Strong focus is placed on coal fly ash, bottom ash, and fly ash de-inertification materials, and their employment in cement, concrete, and other products and applications. Part 1 introduces the various excellent updated review of available knowledge in this area written by 23 experts Provides over 700 references and more than 500 explanatory diagrams, figures and tables

Field Book for Describing and Sampling Soils - 1998

The John Zink Hamworthy Combustion Handbook, Second Edition: Charles E. Baukal, Jr. 2013-08-23 Despite the length of time it has been around, its importance in being completely understood, costs, and environmental By far from complete, this handbook presents a comprehensive examination of air pollution add further complexity, particularly in the processes and power generation industries. Dedicated to advancing the art and science of industrial combustion, The John Zink Hamworthy Combustion Handbook, Second Edition: Volume 2 - Topics covered include separation methods, thermal processing, and chemical pollution. The final section of this book addresses environmental issues, including the use of coal combustion by-products in green construction materials and the essential health and safety considerations associated with their use. An essential reference on the nature, reactivity, beneficiation, and potential environmental risks of coal combustion by-products Contains an in-depth review of the origin and geochemistry of coal ash Exploits the utilization of coal combustion by-products as supplementary cementitious materials to reduce the anthropogenic greenhouse gas emissions associated with the use of Ordinary Portland cement concrete provides the essential area of the toxicology of coal combustion by-products

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