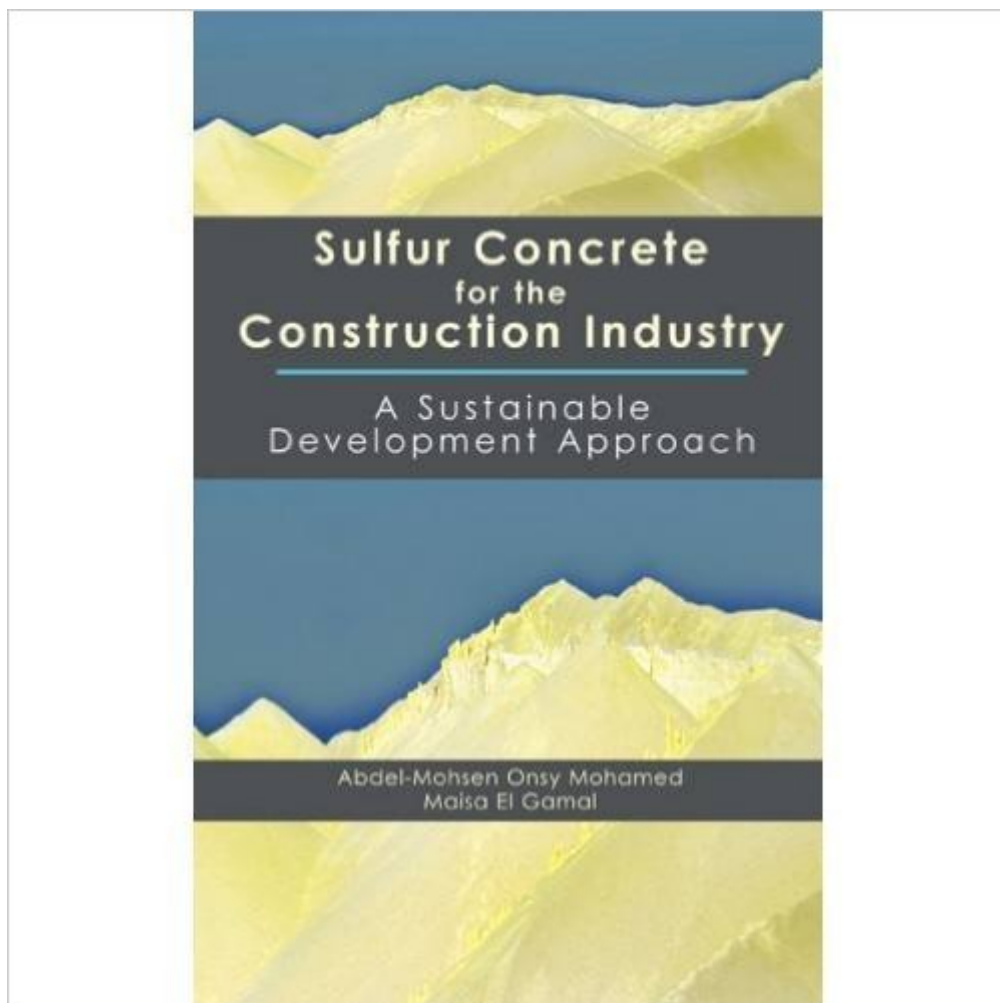


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Sulfur Concrete For The Construction Industry: A Sustainable Development Approach (Civil & Environmental Engineering)



Synopsis

Sulfur construction materials can offer improvements over more traditional materials, especially in specific applications. These materials include sulfur concrete and sulfur-extended asphalt pavements as well as pre-cast concrete components, extrusions, and cast-in-place forms. This one-of-a-kind book discusses the basic properties and behavior of sulfur cement and concrete materials and, based on these properties, new sulfur market applications are evaluated and the technological aspects of material production are presented. Key Features: --Reviews acceptable methods of disposing of unneeded sulfur without compromising environmental protection --Reveals the advantages of using modified sulfur concrete materials for sub-ground and sub-marine structures, and immobilization of hazardous wastes --Describes the unique features of sulfur construction materials such as corrosion resistance, low moisture penetration, high thermal and mechanical performance, and long-term stability in various environments --Discusses sulfur concrete process design for use in waste management practices (barrier systems for waste containment, stabilization/solidification of waste, etc.)

Book Information

Hardcover: 448 pages

Publisher: J. Ross Publishing (July 13, 2010)

Language: English

ISBN-10: 1604270055

ISBN-13: 978-1604270051

Product Dimensions: 6.2 x 1.1 x 9.1 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

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