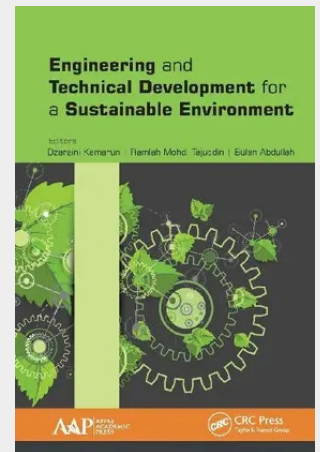


Engineering and Technical Development for a Sustainable Environment

This volume covers a diverse array of alternative technologies and their development with particular attention to the utilization of bioresources for the achievement of a sustainable environment. The book presents a selection of alternative technologies being used in developing and developed countries that can be indigenous to the region, cost-effective, and often driven by dominant societal interest and geographical status. Several engineering and technological processes are included to mark their importance in product performance and preservation of the environment. Topics cover: • strategies for the management of rain and ground water for consumption • wastewater treatment using indigenous techniques of phytoremediation • scientific and engineering approaches to the prevention of flood and landslides in the tropics • wind power generation • soil evaluation of contamination due to heavy metals • green and sustainable building approaches • bioethanol production • energy conservation techniques Refreshing and informative, Engineering and Technical Development for a Sustainable Environment revisits conventional approaches of managing natural agents (such as wind, rain and groundwater resources as well as wastewater treatment) in light of current sustainableoriented techniques using modern scientific concepts and strategies. It presents in-depth evaluations and analyses using systematic up-to-date scientific and engineering tools.

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109,40 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781774636749

Medium: Buch

ISBN: 978-1-77463-674-9

Verlag: Apple Academic Press

Erscheinungstermin: 31.03.2021

Sprache(n): Englisch

Auflage: 1. Auflage 2021

Produktform: Kartoniert

Gewicht: 382 g

Seiten: 260

Format (B x H): 152 x 229 mm

