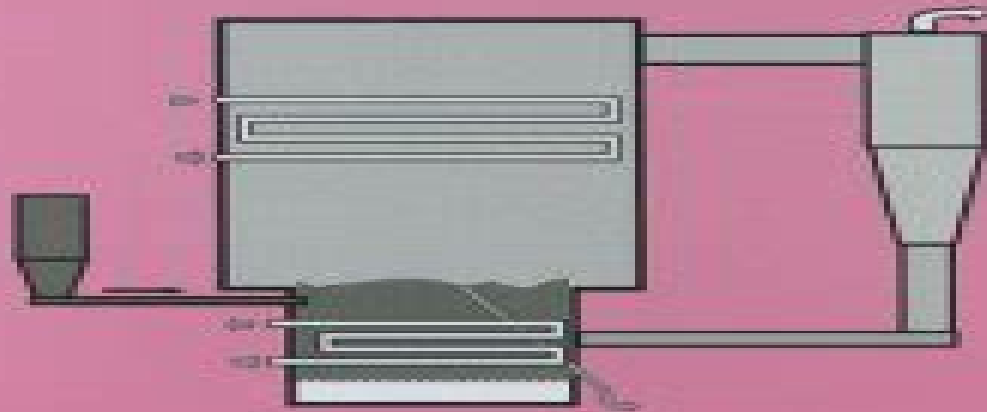


Solid Fuels Combustion and Gasification

Modeling, Simulation, and
Equipment Operation



Marcio L. de Souza-Santos

Solid Fuels Combustion And Gasification Modeling Simulation And Equipment Operation

M. Zamorano

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each stage of production from making and applying chemicals to fueling tractors that lay seeds and harvest crops to electricity for animal housing facilities The majority of agricultural research has focused on the use of input production and productivity whereas rational energy budgeting and use remain an overlooked and likely underestimated segment ignored so far while formulating agro ecosystem framework Energy management study is a new frontier of agriculture and is challenging due to complex enterprises spatial temporal variability exposure to pollution and the predominant effect of the anthropogenic factor on ecology and environment But it is worth taking the challenge considering the important prerequisite role of energy for sustainable development which has been evidenced from increasing research in recent times Of recent origin there are critical in depth studies around the globe assessing the capture and flow of energy in the ecosystem which will help to develop a conceptual framework to incorporate this vital resource in the agriculture management template This book is a state of the art resource for a broad group of readers including a diversity of stakeholders and professionals in universities public energy institutions farmers and farming industry public health and other relevant institutions and the broader public as well

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produces usable heat Incineration Technologies first appeared as a peer reviewed contribution to the Encyclopedia of Sustainability Science and Technology It provides detailed treatment of the challenges of this technically complex process which requires huge investment and operating costs as well as good technical skills in maintenance and plant operation Particular attention is paid to technologies for ensuring the complete burn out of flue gas and residues and for controlling the resulting pollutants

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