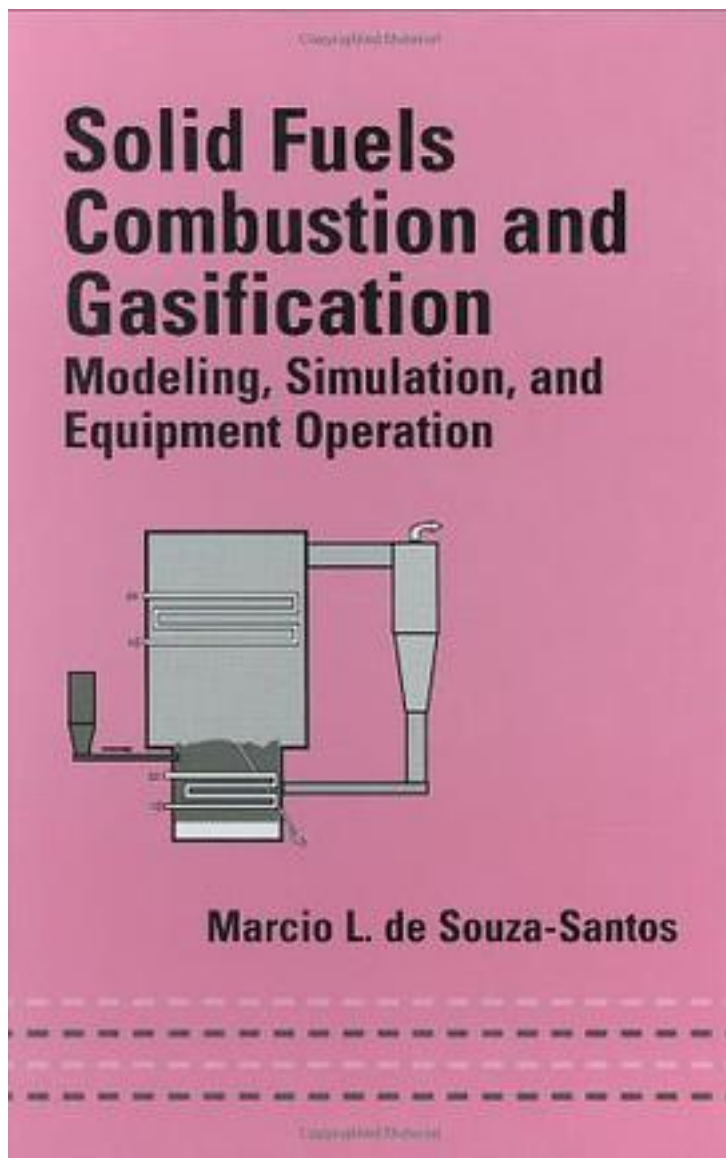


Solid Fuels Combustion and Gasification



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Bridging the gap between theory and application, this reference demonstrates the operational mechanisms, modeling, and simulation of equipment for the combustion and gasification of solid fuels. Solid Fuels Combustion and Gasification: Modeling, Simulation, and Equipment Operation clearly illustrates procedures to improve and optimize the design of future units and the operation of existing industrial systems with recommendations and guidelines from a seasoned professional in the field. "Supplies an abundance of examples, models, and exercises for step-by-step instruction on the modeling and simulation of combustion and gasification machinery" "Of critical importance to the industrial and design engineer, "Solid Fuels Combustion and Gasification... Clearly displays methods to build computer simulation programs that will effectively predict equipment performance Offers methods to formulate sound mathematical models for boilers, gasifiers, furnaces, and incinerators Shows how to interpret simulation results for the best design and operation of combustion and gasification equipment Describes key aspects of solid and gas combustion phenomena Provides detailed discussions of the basic and auxiliary equations used in specific projection models Includes applications of moving and fluidized beds Marcio L. de Souza-Santos is Professor of Mechanical Engineering, State University at Campinas, Sao Paulo, Brazil. The author of numerous professional publications, he holds several patents and is a member of the American Chemical Society, the Brazilian Society of Chemical Engineering, and the advisory committees of several national and international meetings on energy. An experienced consultant, he has worked for respected organizations such as the Institute of Gas Technology, Chicago, Illinois. He received the B.Sc. (1973) and M.Sc. (1981) degrees in chemical engineering from the University of Sao Paulo, Brazil, and the Ph.D. (1987) in chemical engineering from the University of Sheffield, England.

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