



Clean Coal Technologies for Power Generation

P. Jayarama Reddy

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This book discusses clean coal technology (CCT), the latest generation of coal technology that controls pollutants and performs with improved generating efficiency. CCT involves processes that effectively control emissions and result in highly efficient combustion without significantly contributing to global warming. Basic principles, operational aspects, current status, on-going developments and future directions are covered. The recent concept of viewing carbon dioxide as a commodity, and implementing CCUS (carbon capture, utilization and storage) instead of CCS for deriving several benefits is also discussed, as is the implementation of CCT in countries with large coal reserves and that utilize large quantities of coal for their energy supply. These countries are also the foremost CO₂ emitters globally and their energy policies are crucial to international efforts to combat global warming.

This work will be beneficial for students and professionals in the fields of fuel, mechanical, chemical and environmental engineering and Clean Tech.

Includes foreword by Professor Yiannis Leventis, College of Engineering Distinguished Professor, Department of Mechanical and Industrial Engineering, Northeastern University, Boston, MA, USA.

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