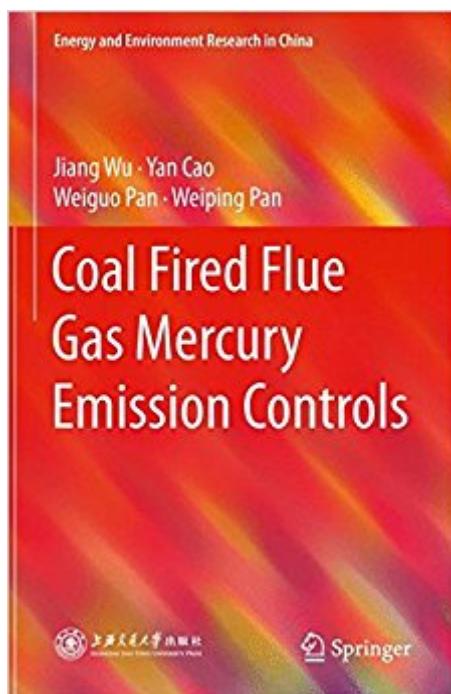


The book was found

# Coal Fired Flue Gas Mercury Emission Controls (Energy And Environment Research In China)



## **Synopsis**

Mercury (Hg) is one of the most toxic heavy metals, harmful to both the environment and human health. Hg is released into the atmosphere from natural and anthropogenic sources and its emission control has caused much concern. This book introduces readers to Hg pollution from natural and anthropogenic sources and systematically describes coal-fired flue gas mercury emission control in industry, especially from coal-fired power stations. Mercury emission control theory and experimental research are demonstrated, including how elemental mercury is oxidized into oxidized mercury and the effect of flue gas contents on the mercury speciation transformation process. Mercury emission control methods, such as existing APCDs (air pollution control devices) at power stations, sorbent injection, additives in coal combustion and photo-catalytic methods are introduced in detail. Lab-scale, pilot-scale and full-scale experimental studies of sorbent injection conducted by the authors are presented systematically, helping researchers and engineers to understand how this approach reduces the mercury emissions in flue gas and to apply the methods in mercury emission control at coal-fired power stations. Readers will arrive at a comprehensive understanding of various mercury emission control methods that are suitable for industrial applications. The book is intended for scientists, researchers, engineers and graduate students in the fields of energy science and technology, environmental science and technology and chemical engineering.

## **Book Information**

Series: Energy and Environment Research in China

Hardcover: 157 pages

Publisher: Springer; 2015 edition (March 19, 2015)

Language: English

ISBN-10: 3662463466

ISBN-13: 978-3662463468

Product Dimensions: 6.1 x 0.4 x 9.2 inches

Shipping Weight: 12.8 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #6,593,029 in Books (See Top 100 in Books) #92 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Coal #3818 in Books > Science & Math > Chemistry > Industrial & Technical #9288 in Books > Textbooks > Science & Mathematics > Environmental Studies

## **Customer Reviews**

Mercury (Hg) is one of the most toxic heavy metals, harmful to both the environment and human health. Hg is released into the atmosphere from natural and anthropogenic sources, and its emission control has caused much concern. This book introduces readers to Hg pollution from natural and anthropogenic sources and systematically describes coal-fired flue gas mercury emission control in industry, especially from coal-fired power stations. Mercury emission control theory and experimental research are demonstrated, including how elemental mercury is oxidized into oxidized mercury and the effect of flue gas contents on the mercury speciation transformation process. Mercury emission control methods, such as existing APCDs (air pollution control devices) at power stations, sorbent injection, additives in coal combustion and photo-catalytic methods are introduced in detail. Lab-scale, pilot-scale and full-scale experimental studies of sorbent injection conducted by the authors are presented systematically, helping researchers and engineers to understand how this approach reduces the mercury emissions in flue gas and to apply the methods in mercury emission control at coal-fired power stations. Readers will arrive at a comprehensive understanding of various mercury emission control methods that are suitable for industrial applications. The book is intended for scientists, researchers, engineers and graduate students in the fields of energy science and technology, environmental science and technology, and chemical engineering.

[Download to continue reading...](#)

Coal Fired Flue Gas Mercury Emission Controls (Energy and Environment Research in China)  
China: China Travel Guide: 101 Coolest Things to Do in China (Shanghai Travel Guide, Beijing Travel Guide, Backpacking China, Budget Travel China, Chinese History) The Essential Wood Fired Pizza Cookbook: Recipes and Techniques From My Wood Fired Oven The Coal Handbook: Towards Cleaner Production: Volume 2: Coal Utilisation (Woodhead Publishing Series in Energy) The Coal Handbook: Towards Cleaner Production: Volume 1: Coal Production (Woodhead Publishing Series in Energy) ASME CSD-1-2015 Standard: Controls and Safety Devices for Automatically Fired Boilers Trace Elements in Coal and Coal Combustion Residues (Advances in Trace Substances Research) Renewable Energy Sources - Wind, Solar and Hydro Energy Edition : Environment Books for Kids | Children's Environment Books Clean Disruption of Energy and Transportation: How Silicon Valley Will Make Oil, Nuclear, Natural Gas, Coal, Electric Utilities and Conventional Cars Obsolete by 2030 NASA Mercury - 1956 to 1963 (all models): An insight into the design and engineering of Project Mercury - America's first manned space programme (Owners' Workshop Manual) Oil, Gas, and Coal (Energy for Today) Mercury Revolts: The Mercury Series, Book 4 Mercury Revolts: (Mercury Series Book 4) Mercury Falls (Mercury Series Book 1) China

Travel Guide: Best of Beijing - Your #1 Itinerary Planner for What to See, Do, and Eat in Beijing, China: a China Travel Guide on Beijing, Beijing ... (Wanderlust Pocket Guides - China Book 2) International Travel Maps China, Scale 1:3,800,000: Changchun, Beijing, Xian, Wuhan, Shanghai, Hong Kong, Taipei, Yellow Sea, East China Sea, South China Sea, Seoul, Delhi, Calcutta, Hanoi: Itmb China 2008 A Practical Guide to Coal Fired Power Plant Efficiency: For Operators and Engineers Coal-Fired Generation Coal and Oil (Energy and the Environment) Reiki: The Healing Energy of Reiki - Beginnerâ™s Guide for Reiki Energy and Spiritual Healing: Reiki: Easy and Simple Energy Healing Techniques Using the ... Energy Healing for Beginners Book 1)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)