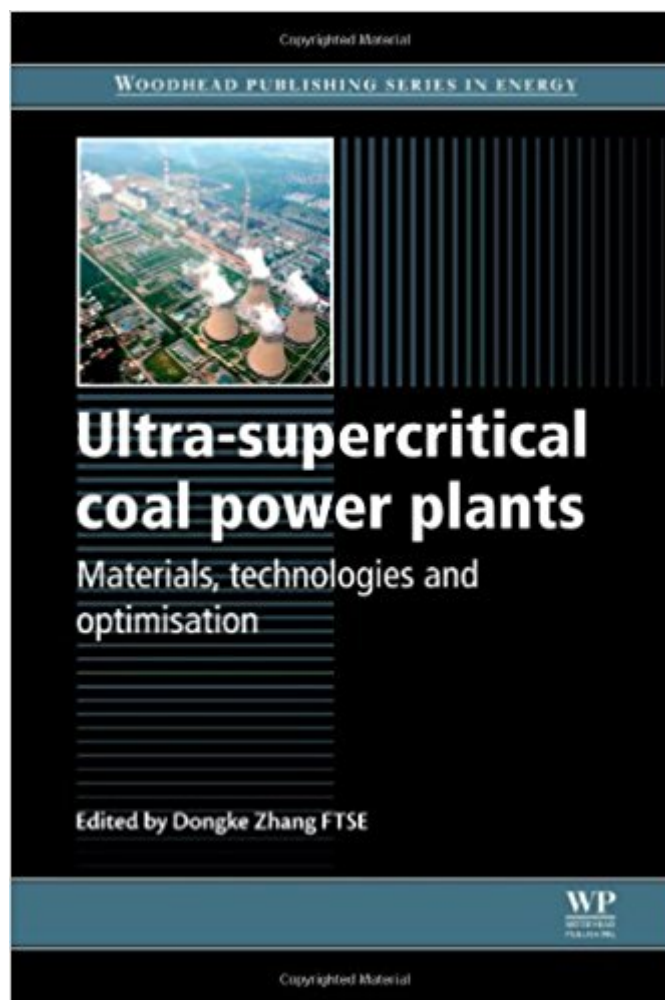




Ebook Directory
the best source of ebook

The book was found

Ultra-Supercritical Coal Power Plants: Materials, Technologies And Optimisation (Woodhead Publishing Series In Energy)



Synopsis

The continued use of coal as a means of generating electricity and an increasing demand for cleaner, more efficient energy production has led to advances in power plant technology.

Ultra-supercritical coal power plants reviews the engineering, operation, materials and performance of ultra-supercritical coal power plants. Following a chapter introducing advanced and ultra-supercritical coal power plants, part one goes on to explore the operating environments, materials and engineering of ultra-supercritical coal power plants. Chapters discuss the impacts of steam conditions on plant materials and operation, fuel considerations and burner design, and materials and design for boilers working under supercritical steam conditions. Chapters in part two focus on improving ultra-supercritical coal power plant performance and operability. Ash fouling, deposition and slagging in ultra-supercritical coal power plants are highlighted along with pollution control measures and the estimation, management and extension of the life of ultra-supercritical power plants. Further chapters provide an economic and engineering analysis of a 700°C advanced ultra-supercritical pulverised coal power plant and discuss CO₂ capture-ready ultra-supercritical coal power plants. Ultra-supercritical coal power plants is a comprehensive technical reference for power plant operators and engineers, high-temperature materials scientists, professionals in the power industry who require an understanding of ultra-supercritical coal power plants and researchers and academics interested in the field. Provides a comprehensive reference on the developments, materials, design and operation of ultra-supercritical power plant. Considers the degradation issues affecting this type of plant, as well as emissions control and CO₂ capture technology; improved plant controls critical to improved operation and environmental performance. Contains operational assessments for plant safety, plant life management, and plant economics.

Book Information

Series: Woodhead Publishing Series in Energy

Hardcover: 304 pages

Publisher: Woodhead Publishing; 1 edition (September 14, 2013)

Language: English

ISBN-10: 0857091166

ISBN-13: 978-0857091161

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,966,192 in Books (See Top 100 in Books) #21 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Coal](#) #822 in [Books > Business & Money > Industries > Energy & Mining > Oil & Energy](#) #2011 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science](#)

Customer Reviews

Professor Dongke Zhang is a Winthrop Professor and Director of the Centre for Energy at The University of Western Australia, Australia.

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

Ultra-Supercritical Coal Power Plants: Materials, Technologies and Optimisation (Woodhead Publishing Series in Energy) Materials for Ultra-Supercritical and Advanced Ultra-Supercritical Power Plants (Woodhead Publishing Series in Energy) 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) Coal Power Plant Materials and Life Assessment: Developments and Applications (Woodhead Publishing Series in Energy) House Plants: A Guide to Keeping Plants in Your Home (House Plants Care, House Plants for Dummies, House Plants for Beginners, Keeping Plants in Your Home, DIY House Plants Book 1) Coal Power Technologies Explained Simply: Energy Technologies Explained Simply (Volume 6) Air Plants: A Beginners Guide To Understanding Air Plants, Growing Air Plants and Air Plant Care (Air Plants, Ornamental Plants, House Plants) Handbook of Organic Materials for Optical and (Opto)Electronic Devices: Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials) Advances in Wind Turbine Blade Design and Materials (Woodhead Publishing Series in Energy) Fracture and Fatigue of Welded Joints and Structures (Woodhead Publishing Series in Welding and Other Joining Technologies) Industrial Coal Gasification Technologies Covering Baseline and High-Ash Coal Advances in Concentrating Solar Thermal Research and Technology (Woodhead Publishing Series in Energy) Principles and Applications of Organic Light Emitting Diodes (OLEDs) (Woodhead Publishing Series in Electronic and Optical Materials) Quantum Information Processing with Diamond: Principles and Applications (Woodhead Publishing Series in Electronic and Optical Materials) Lasers for Medical Applications: Diagnostics, Therapy and Surgery (Woodhead Publishing Series in Electronic and Optical Materials) Project MK-Ultra and Mind Control

Technology: Project MK-Ultra and Mind Control Technology NutriBullet Ultra Low Carb Recipe

Book: 203 Ultra Low Carb Diabetic Friendly NutriBlast and Smoothie Recipes Ultra HD Abs

Workout: The Ultimate Guide to Getting Ultra-Abs Pok  mon Ultra Sun & Pok  mon Ultra

Moon: The Official Alola Region Strategy Guide

[Contact Us](#)

DMCA

[Privacy](#)

[FAQ & Help](#)