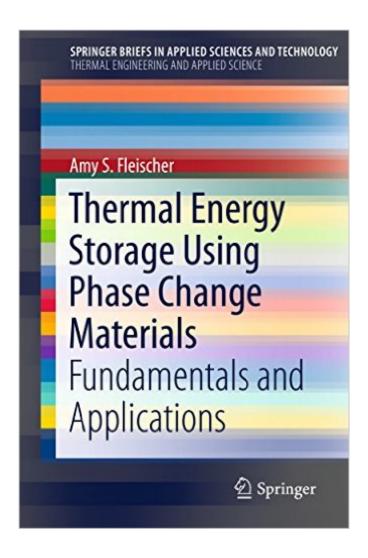
The book was found

Thermal Energy Storage Using Phase Change Materials: Fundamentals And Applications (SpringerBriefs In Applied Sciences And Technology)





Synopsis

This book presents a comprehensive introduction to the use of solidâ •liquid phase change materials to store significant amounts of energy in the latent heat of fusion. The proper selection of materials for different applications is covered in detail, as is the use of high conductivity additives to enhance thermal diffusivity. Dr. Fleischer explores how applications of PCMS have expanded over the past 10 years to include the development of high efficiency building materials to reduce heating and cooling needs, smart material design for clothing, portable electronic systems thermal management, solar thermal power plant design and many others. Additional future research directions and challenges are also discussed.

Book Information

File Size: 1860 KB

Print Length: 97 pages

Page Numbers Source ISBN: 3319209213

Publisher: Springer; 2015 edition (June 22, 2015)

Publication Date: June 22, 2015

Sold by: A Digital Services LLC

Language: English

ASIN: B01077MHTC

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #1,147,386 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #94 in Kindle Store > Kindle eBooks > Nonfiction > Science > Physics > Dynamics > Thermodynamics #646 in Kindle Store > Kindle Short Reads > Two hours or more (65-100 pages) > Science & Math #867 in Books > Science & Math > Physics > Dynamics > Thermodynamics

Customer Reviews

The book "Thermal Energy Storage Using Phase Change Materials: Fundamentals and Applications" by Amy S. Fleischer is very clearly and concisely written, and covers the most important aspects of the issue. Personally, I appreciated the way how the author managed to describe quite complicated ideas in the simplest way imaginable. At the same time the book is full of

technical terminology, notions and fundamental concepts. The book gives you a good idea about the present situation with the phase change materials (PCM), their current application, and future prospectives. The literature review of the recent publications was thoroughly made. Among others, energy storage applications of phase chance materials in various systems are shown. Besides, different types of PCM and their design issues are discussed. Finally, consideration of the fundamental thermal analysis makes readers to understand the mathematics behind. I highly recommend the book for both professionals and people who just started to be interested in thermal energy storage and thermal management. Eric Menumerov, PhD Candidate, Temple University *Download to continue reading...*

Thermal Energy Storage Using Phase Change Materials: Fundamentals and Applications (SpringerBriefs in Applied Sciences and Technology) Reiki: The Healing Energy of Reiki -Beginner's Guide for Reiki Energy and Spiritual Healing: Reiki: Easy and Simple Energy Healing Techniques Using the ... Energy Healing for Beginners Book 1) PeriAnesthesia Nursing Core Curriculum: Preprocedure, Phase I and Phase II PACU Nursing, 3e PeriAnesthesia Nursing Core Curriculum: Preprocedure, Phase I and Phase II PACU Nursing Solar Electric Power Generation -Photovoltaic Energy Systems: Modeling of Optical and Thermal Performance, Electrical Yield, Energy Balance, Effect on Reduction of Greenhouse Gas Emissions Molecular Biology and Pathogenesis of Peste des Petits Ruminants Virus (SpringerBriefs in Animal Sciences) Phase-Transfer Catalysis: Fundamentals, Applications, and Industrial Perspectives Microstructure and Properties of Ductile Iron and Compacted Graphite Iron Castings: The Effects of Mold Sand/Metal Interface Phenomena (SpringerBriefs in Materials) Practical Decision Making: An Introduction to the Analytic Hierarchy Process (AHP) Using Super Decisions V2 (SpringerBriefs in Operations Research) Communication System Design Using DSP Algorithms: With Laboratory Experiments for the TMS320C6701 and TMS320C6711 (Information Technology: Transmission, Processing and Storage) Communication System Design Using DSP Algorithms: With Laboratory Experiments for the TMS320C6713TM DSK (Information Technology: Transmission, Processing) and Storage) Computational Fluid Mechanics and Heat Transfer, Third Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) Nuclear Systems Volume I: Thermal Hydraulic Fundamentals, Second Edition Applied Logistic Regression Analysis (Quantitative Applications in the Social Sciences) Change Your Habits Change Your Life: Break Your Bad Habits, Break Your Addictions And Live A Better Life (Change Your Life, Stop Smoking, Stop Drinking, Stop Gambling, Stop Overeating) Large Energy Storage Systems Handbook (Mechanical and Aerospace Engineering Series) Electrochemical Energy Storage for Renewable

Sources and Grid Balancing Energy Storage in Power Systems Energy Storage 100% YES! The Energy of Success: Release Your Resistance Align Your Values Go for Your Goals Using Simple Energy Techniques (SET)

<u>Dmca</u>