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This book covers the state-of-the-art methods and ideas for energy savings in all aspects related to drying technology, from fundamentals to applications. These innovative ideas can be adopted and implemented by engineers and developers who are active in the field of drying technology.” (Drying Technology, 1 May 2014)

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Modern drying technology / Vol. 4 /
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All in all, the book covers a wide range of strategies for energy savings that may be embraced in various drying applications for a broad range of substances. This book covers the state-of-the-art methods and ideas for energy savings in all aspects related to drying technology, from fundamentals to applications.

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1 Fundamentals of Energy Analysis of Dryers

An advanced energy-saving drying process based on self-heat recuperation technology was proposed for biomass drying. Compared with previously developed design, the newly developed design further reduced energy consumption by 40%. Energy consumptions in the drying systems were qualified and compared through the process simulator PRO/II.

Application of the self-heat recuperation technology for ...

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Oak Ridge National Laboratory and General Electric are developing a new type of clothes dryer that uses a heat pump cycle to generate hot air needed for drying. The result: a more efficient dryer that has the potential to lower energy consumption by 60 percent compared to conventional ones on the market today. 4.

Future Home Tech: 8 Energy-Saving Solutions on the Horizon ...

This article reviews selected energy-saving techniques in drying and discusses some novel combined drying technologies. These include solar-assisted, infrared-assisted, microwave-assisted and...

(PDF) Emerging food drying technologies with energy-saving ...

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energy consumption without sacrificing
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