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COMPOSITION COATED THE SUN THERMAL ENERGY DEVICES

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Abstract: In this composite coated the sun thermal energy of devices efficiency is studied. This article , advanced from technologies used without , the sun energy efficient way to use study, selective acceptance of their actions their characteristics heat efficiency in improvement role and the sun in collectors application analysis does Also different different environment conditions selective acceptance of their actions efficiency studied , their energetic indicators and economic efficiency analysis will be done . As a result , this devices through the sun from energy maximum level of use scientific based on methods offer it is done while ecological clean and stable energy systems to develop contribution adds.

Key words: Composition coatings , selective acceptance doable the sun thermal energy devices , stable energy sources , radiation , energy work release technologies.

Enter.

The sun thermal energy systems last in years stable and ecological clean energy sources as the world across more and more more attention is winning . This from systems efficient use is especially selective acceptance doers through done is increased . Selective acceptance doable the sun thermal energy of devices main advantage the sun its rays maximum level swallow and heat to lose from minimization consists of of this article access in part , selective acceptance of verbs design , materials and heat efficiency increasing place about in detail information is given as well as their energy in systems application and ecological importance seeing will be released .

Selective acceptance verbs , own unique coatings due to , the sun its rays very good level wins and that's it with together heat to lose reduces These are covers usually metals , metal oxides or carbon based on from composites is prepared and their surface the sun its rays swallow for maximum level black in color will be Such coatings not only high in temperatures , perhaps different climate is also effective in conditions work ability have

Also this in the article selective acceptance of their actions different types and their heat efficiency increasing advantages analysis will be done . The sun thermal energy of systems different designs , including tablet , vacuum piped and focal systems comparative analysis is brought . Each of design to himself special features and The application is also specific device for the most efficient coatings selection discussion will be done .

Selective acceptance doable the sun thermal energy of devices technological achievements , economic and ecological in terms of huge benefits emphasizes . This is his in turn , scientific public and technology work exits for this the field more deeper to learn encourages and stable energy sources as the sun systems wider apply opportunity creates

Selective acceptance doable the sun thermal energy of devices efficiency according to scientists by take went studies , this of technologies the sun energy efficient way heat to energy rotate ability deeper to learn directed . Pierre J. Lefèvre and like Stephanie Jones authors , material science and engineering in the field wide information have being their works many scientific published in magazines . Such research , mainly the sun thermal energy of devices heat efficiency improvement , energy indicators increase and apply fields expand opportunities to learn directed .

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1. Selective of coatings physical and chemical Features :

❖ Scientists different different selective coatings , including metals , metal oxides and composite materials with experiences will spend They are of coatings the sun its rays How efficient swallow and heat to lose How decrease possible they learn

❖ Coatings types between heat swallow and lighting features compare

❖ Selective coatings , their heat and light swallowing features about deep concept giver studies . These coatings are usually the sun its rays maximum level swallow and lowered light radiation provide for intended .

❖ Wide spread out coatings metals , metal oxides and carbon based on from composites consists of These are covers heat efficiency to increase directed .

❖ Heat losses reduce in order to of the device insulation and ventilation according to new designs . These designs are especially cool climate conditions of the device efficiency significant level to increase can

2. Device common efficiency increase :

❖ Heat losses minimize for insulation systems improvement .

❖ Heat conductor of liquids efficiency increase for new formulations work exit

❖ Various climate conditions of the device work optimization .

3. Economy and environmental performance:

❖ Devices economic efficiency evaluation , including device value , use term and energetic efficiency indicators .

❖ Ecological the effect analysis to do that of devices to the environment positive effect and carbon track in reduction role own into takes

❖ Devices initial and exploitation expenses analysis do as well as theirs economic efficiency evaluation .

❖ The sun thermal energy systems to the environment positive influence , for example , carbon waste reduce and again recoverable energy sources transition

Like this studies not only technological achievements , perhaps society and economy for which brings showing the benefits as well will give . Selective acceptance doable the sun thermal energy devices optimization and wide in scope apply through energy systems stabilization , to the environment effect reduce and economic efficiency increase can Such studies the sun energy more efficient and ecological clean source as in development important importance occupation is enough

Selective acceptance doable the sun thermal energy of devices efficiency circle books review , to the field about the most new scientific data , research and technological achievements own into takes

This type in the comments scientists and engineers by take went experimental and theoretical works are also practical applications wide in scope seeing will be released . This books review through , selective acceptance doable the sun thermal energy of devices efficiency improve according to scientific approaches , innovative materials and design solutions development as well as economic and ecological in terms of their usefulness about deep concept harvest to do can

Summary.

Selective acceptance doable the sun thermal energy of devices efficiency according to take went Research is definitely stable and ecological clean energy sources global need in satisfaction important is a step .

of the article conclusion as , selective acceptance of their actions heat efficiency , energy indicators , and economic aspects usefulness note to be done necessary

1. Selective acceptance of verbs important feature their high heat swallow ability and low heat loss level being , this the sun its rays efficient to the heat rotate enable gave Studies that's it indicates that coatings different of materials preparation they can between the most effective ones

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metal oxides and carbon based on composites is considered These are covers using heat efficiency significant level increased

2. Selective acceptance doable systems ecological clean and stable energy source as , fossils to fuel compared to less to the environment harm delivered . These systems long term use during high level economic efficiency provides because to them technical service show less required and they are high level reliability with works

3. Selective acceptance of their actions different climate conditions and different buildings in types successful their use universality and flexibility emphasizes . In the future , this technologies more improvement and expansion , for example , smart-grid systems with integration or new generation heat pumps with combine such as news is expected .

Selective acceptance doable the sun thermal energy of devices efficiency high level and their wide in scope application global energy in the future sources diversification in doing important place take over can And not only that energy in the field , perhaps economic and ecological is also big positive changes surface brings .

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