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Activated Carbon

Modelling Of Solar Still Using Granular Activated Carbon

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unquestionably discover a supplementary experience and talent by spending more cash. yet when? get you say yes that you require to get those every needs afterward having significantly cash? Why don't you attempt to get

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It is your definitely own grow old to undertaking reviewing habit. among guides you could enjoy now is **modelling of solar still using granular activated carbon** below.

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~~Activated Carbon~~ of a single
~~slope solar still (Part 1)~~
~~Solar Still with Waste Heat~~
~~Matlab/Simulink Model~~ Solar
~~Still Distillation +~~
~~Performance Model + Matlab +~~
~~Simulink~~ DESIGN AND
SIMULATION OF A SOLAR STILL

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~~TRNSYS 18 Can a Solar Still
Generate Enough Fresh Water
for Survival? | MythBusters~~

EXPERIMENTAL INVESTIGATION ON SOLAR STILL WITH PCM

~~Michael Moore Presents:
Planet of the Humans | Full
Documentary | Directed by~~

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~~Jeff Gibbs Solar
Activated Carbon~~

~~distillation | solar still |~~

~~solar distillation in hindi~~

~~| solar still animation |~~

~~solar Solar distillation~~

~~(??????) Solar Still PCM~~

~~Storage | Flat Plate Solar~~

~~Collector | Matlab |~~

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~~Activated Carbon Emergency
Water Source — Evaporating
with a Solar Still: Survival
Tip ? All 4 Adventure TV~~

Solar Still Desalination
Matlab/Simulink model

*Primitive Technology: Filter
Dirty Water* ~~A new solar~~

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~~Activated Carbon~~
~~panel the size of a book~~
~~could soon power your entire~~
~~house~~ ~~Solar Still Design~~
~~Process~~ ~~How To Get Water~~
~~From Trees!~~ ~~Solar Water~~
~~Distiller Build Part 4~~ Solar
Water Distiller Part 2 (Very
Funny) **Off Grid Water**

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Activated Carbon at its Best!

~~How to Make A Solar Water
Distiller~~

Solar water still by Do-
Right Solar**Ray Mears-Making**
a solar still in the Desert
Solar Still On Ocean And
Obtaining Food (Survival

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Zone) *Wilderness Survival -
The 30 Second Solar Still
Survival Camping: #2
Seawater, Solar Stills
\u0026 Seeps Renewable
Energy: Solar Water
Distillers Lenan Zhang -
Ultrahigh-efficiency*

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*desalination via a thermally-
localized multistage solar
still Sea water converted
into purified water by using
double slope solar still /
Double Slope Solar still
Solar Still Project
Wilderness Survival Tools:*

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Activated Carbon
Vegetation and Solar Stills

Modelling Of Solar Still

Using

behind the convective heat transfer coefficient in solar still. The convective heat transfer coefficient of water surface to condensing

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glass cover is given by: $q_{cw} = h_{cw} (T_g - T_a)$ (1)

Modelling of Solar Still

Using Granular Activated

Carbon in Matlab MD Irfan

Ali, R. Senthilkumar and R.

Mahendren I

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Modelling of Solar Still
Using Granular Activated
Carbon ...

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applications through CFD by
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Maulik (ISBN: 9783848402892)
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Modelling and analysis of hemispherical solar still using ...

Kindly say, the modelling of solar still using granular activated carbon is universally compatible with

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any devices to read The legality of Library Genesis has been in question since 2015 because it allegedly grants access to pirated copies of books and paywalled articles, but the site remains standing and

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open to the public.

Modelling Of Solar Still
Using Granular Activated
Carbon

One best option is to use
solar energy for water

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Activated Carbon. This paper is about the numerical analysis and modelling of a solar still and enhancing its efficiency by mixing the still water with granular activated carbon. Matlab software is used to simulate

File Type PDF Modelling Of Solar Still Using Granular Activated Carbon the model.

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...

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Activated Carbon Modelling
Of Solar Still Using
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We are coming again, the
extra addition that this
site has. To unqualified
your curiosity, we offer the
favorite modelling of solar

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many sources to learning,

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reading a baby book still
becomes the first marginal
as a good way. Why should be
reading? in

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Rajesh Tripathi and G.N.
Tiwari, Thermal modelling of
passive and active solar
stills for different depths
of water by using the
concept of a solar fraction,
Solar Energy, 80 (2006)

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Activated Carbon. The main aim of the study was to develop a CFD model of a Simple Solar Still and use it for performance enhancement by some parametric analysis.

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Modelling and Performance
Enhancement of Single Slope

...

Solar still efficiency (η)
is the amount of energy
utilized in vaporizing water
in the still over the amount
of incident solar energy on

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the still (Q_t in $J/m^2 \text{ day}$).

These can be expressed as:

Solar still production: M_e

$= Q_e / L$ Solar still

efficiency: $n = Q_e / Q_t$.

Typical efficiencies for
single basin solar stills
approach 60 percent.

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Solar Still Basics

A solar still distills water with substances dissolved in it by using the heat of the Sun to evaporate water so that it may be cooled and

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collected, thereby purifying it. They are used in areas where drinking water is unavailable, so that clean water is obtained from dirty water or from plants by exposing them to sunlight.

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Solar still - Wikipedia

Johannes Kepler (1571-1630 CE) was fortunate enough to inherit an extensive set of naked-eye solar, lunar, and planetary angular position data from the Danish

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astronomer Tycho Brahe

(1546–1601 CE). This data extended over many decades, and was of unprecedented accuracy. Although Kepler adopted the heliocentric approach of Copernicus,

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Kepler's Model of the Solar System

That is why, it is important to use an accurate model for the PV module. This paper presents a detailed modeling of the effect of irradiance

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Activated Carbon on the parameters of the PV module. The chosen model is the single diode model with both series and parallel resistors for greater accuracy.

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A detailed modeling of photovoltaic module using MATLAB ...

Solar System Scope is a model of Solar System, Night sky and Outer Space in real time, with accurate

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positions of objects and
lots of interesting facts.

We hope you will have as
much fun exploring the
universe with our app as do
we while making it :)

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Solar System Scope - Online
Model of Solar System and

...

There are endless examples
of how scientists use models
and simulations. They use
them to understand processes
that happened millions of

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years ago, like the
formation of the universe,
and to ...

Why Scientists Use Models &
Simulations - Video & Lesson

...

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Solar power is increasingly gaining popularity as a reliable and clean energy source for the home.

Initially, you may find solar cells expensive, so you may use them in conjunction with your

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existing, grid-power

electricity to meet your
home's energy requirements.

How to Connect Solar Panels
to My House's Electricity |
Hunker

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Even a small solar panel system will set you back around £3,000; it would probably take several decades to earn this back from SEG earnings alone.

While you shouldn't be under any illusion that selling

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electricity to the grid from
your solar panels can make
you a fortune, there are
still many good reasons to
get solar panels, including:

Smart export guarantee six

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months on: how much money
can ...

Using solar energy to heat
water is in fact a better
option (financially) ... In
Tasmania, on the other hand,
the controlled load tariff
for hot water heats day and

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night while still charging a lower rate. Controlled loads and solar power. ... from \$800-\$2000, depending on the model and the complexity of installation. Whether the cost is worth ...

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Solar power & water heating:
Everything you need to know

...

Since they are wired in series, the voltages get ADDED together for a total of 86.4 volts. (Open-Circuit

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Voltage (Voc) of 21.6 x 4
panels) The amps on the
“upstream” side of the 100w
solar panels remains 6.72
since in series, the
voltages get added and the
amps stay the same.. So, the
86.4 volts is under the safe

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threshold of the 100 max
volts of the Victron
SmartSolar MPPT 100 | 30
solar ...

How-to Choose a Solar Charge
Controller for a DIY Camper

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I will only be using blender for unity and UE4 though just basic modeling and suff as its for student use. But I intend to make money later on and don't want my work to be in vain so this is why I

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would use blender just to be
on the safe side you know.

If Blender can do everything
why do people still use 3DS

...

Solar cells have come a long

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Activated Carbon way, but inexpensive, thin film solar cells are still far behind more expensive, crystalline solar cells in efficiency. Now, a team of researchers suggests that using ...

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This book presents the latest developments and advances in solar desalination technology, including the concept, design, testing, modeling,

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economics and innovation.

The chapters in this volume are contributed by leading international researchers and are based on original research material. The contents of this volume will be of interest to

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researchers, professionals,
and policymakers alike.

As we know that, there is a vast water crisis in the world due to less availability of potable water. A device which

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converts the saline water into drinkable water by use of solar energy is called solar still. many researchers have worked on solar still to improve performance but no one has applied CFD simulation

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approach. Here, hemispherical head solar still is made and tested in climate conditions of Mehsana, Gujarat to get better yield. All experimental results have compared with CFD simulation

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results. This CFD research
also show step by step
procedure applied to
hemispherical solar still
for simulation. we have
found that there is a good
agreement of CFD results and
Experimental results. CFD is

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Activated Carbon
a very important tool for
evaluating performance of
solar energy applications.

The purpose of this book is
to offer readers important
topics on the modeling,
simulation, and optimization

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of distillation processes.

The book is divided into four main sections: the first section is introduction to the topic, the second presents work related to distillation process modeling, the third

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deals with the modeling of phase equilibrium, one of the most important steps of distillation process modeling, and the the fourth looks at the reactive distillation process, a process that has been

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applied successfully to a number of applications and has been revealed as a promising strategy for a number of recent challenges.

This book essentially summarises the water

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shortage crisis in the world and its possible solution by using solar energy through solar stills. The world is facing an urgent problem. By 2015, 40 per cent of the world's population will be living in regions without

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adequate fresh water supply. Presently, almost all sea water desalination plans are electricity based and highly power intensive. With more than half the world likely to become dependent on sea water desalination such an

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energy-expensive scenario is clearly not sustainable. The aim of the book is to provide the most recent information on various practices, developments and improvements in water distillation, heat and mass

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transfer in solar distillation, thermal modelling and embedded energy of solar stills, and the applications of solar distillation in today's world. The concluding chapter also deals with

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economic analysis of solar distillation. To simplify the subject, figures, tables, solved examples and problems with hints are given at the end of each chapter, and there are appendices and a glossary of

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meaningful terms to assist the reader. The authors have written an outstanding academic work which carries weight and resonance beyond university courses and libraries, and which impacts on the global population.

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A study has been performed to examine the effects of daily weather on the performance of commercial solar distillation basins (solar stills). The objectives of this study

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were to evaluate the long term performance of solar stills, to instrument two solar stills and record sub-hourly thermal properties, to evaluate existing heat transfer modeling methods for hourly production, and

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to create new models to predict daily production using experimental distillate production and local weather data by utilizing artificial neural networks, genetic algorithms, and multivariate

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Activated Carbon regression. A system dynamics model was also created to determine the required basin area and storage volume to produce enough water to meet year round potable water demand. Solar still production was

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measured between January 2011 and September 2011. The average daily yield of solar still #1-A (SS1-A) and solar still #1-B (SS1-B) ranged from 2.11 ± 0.35 L/m² and 2.00 ± 0.46 L/m² (winter season) to 5.53 ± 1.01 L/m²

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and 5.64 ± 1.06 L/m² (summer season), respectively. The artificial neural network model performed with a mean absolute error as low as 9.4% with up to 92.4% of production predictions within 0-20% of the actual

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Activated Carbon. The genetic algorithm model performed with a mean absolute error as low as 11% with up to 91% of production predictions within 0-20% of the actual daily production. The multivariate regression

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model performed with a mean absolute error as low as 9.7% with up to 94.1% of production predictions within 0-20% of the actual daily production. Analysis of the sub-hourly performance data indicated

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Activated Carbon that large distilland volumes resulted in a greater proportion of production occurring during the night compared to smaller distilland volumes. Hourly temperature data was used to calculate heat

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Activated Carbon transfer coefficients which could predict hourly distillate production with a mean absolute error between 26% and 53%.

This book sets forth the fundamentals of solar

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energy, its applications and
basic heat transfer. Design,
construction, and
performance of solar thermal
devices and photovoltaic
systems are discussed at
length, along with the
economic aspects of solar

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Activated Carbon systems. The text is complemented by more than 300 figures, 180 solved examples, and numerous problems with hints to their solution. (Midwest).

Water scarcity affects the

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African, Asian, European and American continents, causing serious problems of social welfare and stability. This book of the NATO Science Series presents the state of the art of Desalination Technologies driven by

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Renewable Energies,

highlighting the results achieved in the research field and presenting the potentialities of such technologies. Following an Advanced Research Workshop held in Tunisia from the

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23rd to the 25th of February
2006 and collecting
prominent scientists from
more than 20 different
countries, several
contributions were selected
from researchers,
technicians, and industrial

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Activated Carbon, each
focused on several different
aspects of the use of
renewable energies for
desalination. Moreover,
several regional overviews
illustrate the actual state
of RE exploitation in most

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Activated Carbon interested
of the countries by water scarcity and
abundant availability of
solar, wind and other
renewable energies.

This book is primarily
intended to serve as a

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Activated Carbon
textbook and reference work
for graduate and
professional training
coursework on solar
desalination of water. The
book begins with an
introduction to the
increasing demand for

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Activated Carbon, various types of water pollution and its impacts on human health, and goes on to cover basics of desalination technologies. It covers all aspects of solar-energy based distillation and

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desalination for producing
potable water resources,
including radiation and heat
transfer concepts, a history
of solar distillation
systems, and background on
solar collectors. The
contents include thermal

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modeling and parametric study of solar distillation. Energy and exergy aspects are analyzed in detail, including energy matrices of solar distillation. A special chapter on exeroeconomics introduces

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fundamental equations which include the general balance equation, thermodynamic balance equations, and economic balance equations. A chapter on Economic Analysis of Solar Distillation completes the

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Activated Carbon coverage. The book includes solved examples and end-of-chapter exercises in the form of both problems and objective-type questions. The contents of this book are useful to students, researchers, professionals,

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and policymakers looking for
a comprehensive resource on
solar desalination.

Solar Energy Conversion and
Photoenergy Systems: Thermal
Systems and Desalination
Plants theme in five volumes

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is a component of Encyclopedia of Energy Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one

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Encyclopedias. The Theme on
Solar Energy Conversion and
Photoenergy Systems: Thermal
Systems and Desalination
Plants with contributions
from distinguished experts
in the field, discusses
solar energy, renewable

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Activated Carbon energy, thermal systems, and desalination systems, some of which are already in commercial and practical applications and others are under research and testing level. The volumes provide an analysis and discussion

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Activated Carbon behind the current efforts of our society, considering both developed and developing countries, to accelerate the exploitation of the huge solar energy potential in our normal daily lives. The

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Activated Carbon also provide some basic information about the solar energy potential, history and the amazing trip of a photon from its creation in the Sun until its arrival to the Earth. These five volumes are aimed

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Activated Carbon
at the following five major
target audiences: University
and College Students
Educators, Professional
Practitioners, Research
Personnel and Policy
Analysts, Managers, and
Decision Makers, NGOs and

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Solar desalination using solar-still is the age old technique to get fresh water from saline and brackish water. The efficiency of the solar-still depends on many

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The main objective of this book is to show how the output from the solar-still is increased at SRM University. This book presents the complete mathematical modeling of solar-still and solar pond.

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The book presents how the temperature of the feed water to solar-still and basin water of the solar-still can be increased to increase the efficiency. The temperature of the feed water to solar-still can be

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increased by circulating the feed water through solar-pond, and the basin water temperature of the still can be increased by using various photo-catalysts. In this work the temperature of the basin water of solar-

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still was increased by using two different photo-catalysts, 1) Granular activated carbon (GAC) and 2) lead-oxide coating (PbO_2). Experiments were done by using 0.5 kg GAC, and 1kg GAC with 0.5 kg PbO_2 coating

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on the base of the solar-still. The added advantage of this book is, it used MATLAB software for physical modeling of solar-still. Simulink toolbox was used to build a physical model of solar-still.

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