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Estimation Of Global Solar Radiation

ABSTRACT: Estimations
of global solar radiation
based on a model of
using normalized

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clearness index and
normalized sunshine
duration for a period of
up to 25 years
(1985-2010) for Ikeja
(06.39°N ...

(PDF) Estimation of Global Solar Radiation

The results show that
the model can
estimate the global
radiation with accuracy
of MBE less than 1.5 MJ
m⁻² and RMSE less
than 2.8 MJ m⁻² for

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daily radiation and RMSE less than 2.0 MJ m⁻² for monthly-mean daily radiation at individual stations over most of China except at a few stations where unsatisfactory estimates were possibly caused by severe air pollution or too dense clouds.

Quality control and estimation of global solar radiation ...

1. Introduction.

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Detailed knowledge about temporal and spatial variability of solar radiation (SR) is necessary in order to make plans for the present and the future because it directly or indirectly affects the life on our planet [1, 2, 3, 4, 5]. Many studies have indicated that the long-time database of SR is very important for detecting and the understanding climatic variations and global

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warming
Radiation On
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global solar
radiation using deep**

...

Estimation models are used to obtain solar radiation values where measurements are not existing. These models allow to estimate global solar radiation with the aid of other measured meteorological...

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**(PDF) Total Global
Solar Radiation
Estimation Models
and ...**

In this study, daily global radiation for Toledo ($39^{\circ}53'05''\text{N}$, $4^{\circ}02'58''\text{W}$, Spain) were utilized to determine monthly-specific equations for estimating global solar radiation from sunshine ...

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**Radiation Using
Sunshine ...**

Horizontal Surface
method to estimate
maximum possible
daily global solar
radiation at any given
arbitrary location.
Ideally an appropriate
model estimates the
upper boundary for
global radiometer data
from an instrument set
on a horizontal surface
and for a cloud-free,
clear, and dry
atmosphere.

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**Estimation of
maximum possible
daily global solar
radiation**
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Estimation of monthly-mean global solar radiation using MOD08-M3 atmospheric product was explored in this work. 8 models were developed and evaluated using monthly-mean daily global solar radiation and atmospheric constituents data,

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including cloud
fraction, cloud optical
thickness, precipitable
water vapor amount
and aerosol optical
thickness ...

**Estimation of
monthly-mean
global solar
radiation using ...**

Solar radiation data
play an important role
in solar energy
research. However, in
regions where the
meteorological stations

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providing these data are unavailable, strong mapping and estimation models are needed. For this reason, we have developed a model based on artificial neural network (ANN) with a multilayer perceptron (MLP) technique to estimate the monthly average global solar irradiation ...

Mapping and
Page 13/27

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**Estimation of
Monthly Global Solar
Irradiation ...**

Half-hourly averages of solar irradiance estimates. Half-hourly averages of solar irradiance estimates at 10:30 and 13:30 LT are compared with the measured data in Fig. 2. The model performs well for solar irradiance estimates $>400 \text{ W/m}^2$, but large errors exist in the estimates of $<400 \text{ W/m}^2$.

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A method for daily global solar radiation estimation from ...

The study showed that the formula could not be used directly to estimate the monthly solar global radiation in South East Asia, including Indonesia, as it introduces unacceptable deviations from the recorded solar radiation data. The

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Sayigh formula and its predecessor, however, appear in a form suitable for easy modification.

Estimation of global solar radiation in the Indonesian ...

In order to estimate monthly global solar radiation the maximum-likelihood quadratic fit was employed by [10]. There are many empirical formulae

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have been developed
to estimate the solar
radiation using
different

meteorological
parameter [11,12,13],
Iraq geography and
climate is well situated
for solar energy
potential and its
potential is about 3316
hour per year with
average daily solar
radiation is 501W/m^2
[14]. Although Iraq has
high solar potential,
the use of solar energy

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**Estimation Global
Solar Radiation |
Root Mean Square ...**

Average annual solar radiation arriving at the top of the Earth's atmosphere is roughly 1361 W/m^2 . The Sun's rays are attenuated as they pass through the atmosphere, leaving maximum normal surface irradiance at approximately 1000 W/m^2 at sea level on a

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**Solar irradiance -
Wikipedia**

clear day.

— There is no doubt that information of the measured data of solar radiation is the best for designing any reliable solar energy systems but in Nepal the measured solar radiation data are not available for most of the sites due to high cost and

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The outcome of this shows that the Angstrom-Prescott model is the most suitable for the calculation of global solar radiation in the sites of Mongo with values of 5.887 kWh/m². For the site of Bokoro, the Allen model is the most adapted for the calculation of global

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solar radiation which is
5.872 kWh/m².

Horizontal Surface

Evaluation of global solar radiation from meteorological ...

Construction of a
quadratic model using
modified Angstrom
coefficients to estimate
global solar radiation,
Solar Energy 45, 85-92.

[19] Falayi EO, Rabiou
AB, Teliat RO (2011).

Correlations to
estimate monthly
mean of daily diffuse

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solar radiation in some
selected cities in
Nigeria.

**Estimation of Global
and Diffuse Solar
Radiation for Kebbi**

...

Request PDF |
Estimation of global
solar radiation in arid
and semi-arid climates
of East and West Iran |
In Iran, most of the
models used so far,
have provided solar
estimation for a few

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specific ...

**Estimation of global
solar radiation in
arid and semi-arid ...**

Estimation of monthly
global solar radiation in
Buenos Aires:

preliminary analysis.

Six existing models
and one proposed
approach for
estimating global solar
radiation were tested
in Buenos Aires using
commonly measured
meteorological data as

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temperature and
sunshine hours
Radiation On
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covering the years
2010-2013. Statistical
predictors as mean
bias error, root mean
square, mean
percentage error, slope
and regression
coefficients were used
as validation criteria.

**[PDF] Estimation of
monthly global solar
radiation in ...**

Estimation of Hourly,
Daily and Monthly

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on Inclined Surfaces:
Models Re-Visited
Article (PDF Available)
in Energies 10(1) ·
January 2017 with
1,720 Reads How we
measure 'reads'

(PDF) Estimation of Hourly, Daily and Monthly Global Solar

...

Moreover,
configuration and
sizing of solar energy
systems (e.g.

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photovoltaic cells, solar-thermal collectors)
necessitates reliable solar radiation measurements.

However, concurrent measured data of global and diffuse irradiance on horizontal surface or direct normal irradiance are available only for a limited number of locations.

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ecf8427e.