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THERMAL SENSING OF HIGHORI TEMPERATURE SOLAR INSTRUMENTS, SOLAR PHOTOELECTRIC ENERGY

Xasanov Diyorjon Islom Karimov nomidagi TDTU Qo'qon filiali talabasi Email: dilshodafayzieva23@gmail.com

> Qulmurodova Mohichehra Nazarov Jahongir DTPI talabalari

Otakuziyeva Vazirahon Usmonjonovna Islom Karimov nomidagi TDTU Qo'qon filiali dotsinti PhD

ABSTRACT	KEYWORDS		
This concertation in the article the sun water heater heat sensitive high temperature the sun of devices feel the heat. the sun photoelectric energy about data seeing developed.	distance	heater, , concentrat or, current d	,

Introduction

Uzbekistan economic development , market to relations transition , agro-industry in networks energetic resources saving complex technologies apply and them scientific the basics by creating is determined . Republic of Uzbekistan _ _ _ the first Pr e zid e ntining 2013 1 _ No. PF-4512 of March « Alternative energy sources further development measures "about". in the decree " From solar energy in practice use for in Uzbekistan created conditions and there is opportunities this from the region this advanced in the field technologies not only in our republic , maybe nose in Central Asia experience as current reach area as basis for use being service ", it is said . Also an alternative energy sources - sun , wind and from biogas use in our republic enough scientific and technical potential and experiences noting that there is passed . The same at the time 80 of the world near in countries alternative energy from sources use programs based on conducting scientific research is going The sun from devices buildings heating and cooling, sweet water get , electricity energy harvest to do and different technological in the implementation of processes is being used . Our country in the south in the regions one yearly sunny days 280-300 days _ organize does _ summer days average the temperature is 44-45 o C organize does _ Such happy the sun people from energy in the farm use current is considered

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Problem: Sun its rays collect the one who gives his intention in different
concentrations there is is in college design and manufacture of parabolic cylindrical
concentrators and to try the intention of imk o there is
These types of concentrates power svni to boil to the intention of the imk o to feel that he
has o lib sun water boiler and heater making and test t ex n o l o gical processes work released and
from $\sin o v$ was conducted . The basis of the device parts of light refocusing $____$ surface and is
the source to be placed in focus From the
math course known with a certain focus parab o la t e ngram as follows:
y=4Fx
this where F is the focus distance
L o yihaal device return and feel the ease of positioning the boiler
o lib o lib focus mas o fani _ choose can _
The above formula back _ of the function graph to build
y and x values pointer table is prepared . The obtained
values are based on a 1:1 scale centim e tr his o bida millimeter in the country
graph will be killed . Get rid of it has been graph The fat is transferred in three stages
_ curve line a rail is placed along it and a base is
made Ta x tachas by sawing in parallel are placed side by side .
T o r e s and along the parab o la thin tin or DVP is installed . He had tuberculosis _
parab o lacylindrical surface over Aluminum foil is used .
Copper , aluminum or nick e llan from the pipe is prepared .
Parab o la f o kusi along q o z o nni installation for h o sil made
returner surface to the box supports is installed.

At the bases what 's up _ _ installation and from him die _ for all arrows _ is installed . What 's new _ _ _ from water by filling It is used in all areas and c o ns e ntrat o r to the sun is directed . Water boiled it is divided . Hot water to die _ and do n't shut up and from him faucet to the back _ _ _ _ looking water flow rate faucet the back is released . _ Hot the water storage iz o lated for see is used from the battery . _

						J	
Oylar	Kun soatlari						
	12	11, 13	10, 14	9, 15	8, 16	7, 17	6, 18
Dekabr	840	800	745	640	370	-	-
Yanvar, Noyabr	860	840	780	675	460	-	-
Fevral, Oktyabr	910	890	840	760	600	180	-
May, Sentyabr	930	910	880	830	705	550	500
Aprel, Avgust	940	935	910	865	780	630	300
May, Iyun	940	930	910	865	800	620	465
Iyul	930	925	910	865	800	700	520

Consetration the sun water heater feel the heat . Earth falling on the surface the sun energy right and scattered white radiations are felt in the body . _ _ _ _ Concentrations are falling _ _ _ _ _ _ right radiation

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work reach back _ in case of death _ of the device seeing the feeling of heat we go out In the territory of Uzbekistan _ fall possible that's radiation **m2** mentioned right in \mathbf{W} / in the table It shown **Table** numbers lot yearly observations is in mean of difference is the real with amount one to do In this that the error does not exceed 5-7 % hims o bga if so, in practical experiences _ this use of certain herbs _ _ can _

C o ns e ntrat o rli the sun the device causing a feeling of heat _ _ release for we use the procedural s xe : P e rp e nikular on the surface coming down bright

 $Q_1 = J_1 S \tau$

2) Qaytaruvchi sirtdan qaytgan yorug'lik energiyasi:

$$Q_k = K_F J_F S \tau$$

3) Qabul qiluvchi sirtni yutgan nur energiyasi:

$$Q_{vu} = K_2 Q_k$$

4) Qozondagi suvning olgan nur energiyasi:

$$Q_{ol} = mc(t_2 - t_1)$$

5) Qozonni yo'qotadigan nur energiyasi:

$$Q_{vo'q} = K_3 S_2 (t_k - t_1)$$

6) Konsetrasiya darajasi:

$$n = \frac{S_1}{S_2}$$

7) Qurilmaning FIK

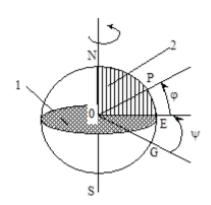
$$\eta = \frac{Q_f}{Q} \cdot 100\% = \frac{mc(t_2 - t_1)}{J_f S \tau}$$

formulas _ incoming physical sizes . J 1 - To the light upright has been unity surface coming down light en e rgy (W/m2); K f - the surface the light return coefficient (unitless); ___ S 1- concentration surface (m2); _ _ K 2-q o z o nni light swallow coefficient e nti (unitless); m - in q o z o n water quantity (kg); C - water temperature _ _ heat capacity-4200 kggrad J t 2- o lining Hot water temperature degrees ; _ t 1-atr o f environment t e mp e rature (degree); K 3 - q o z o nni heat transmission m2grad coefficient W W / m2grad in practical tests _ possible; S ks - ground surface (m2); S 2 - of the qo z o n bullet wire face tq - ground surface temperature (degrees) . _ _ _ _ the earth falling the sun radiation what is it? the most big density 0.3 - 2.5lengths range wave in the is about

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This is radiation short a wavy sensation is felt visible spec _ _ own into he will _ Places where people live _ _ _ for j o yga , of the day on time and o b- hav o ga b o glik to the ground _ the sun values day varies from 3 en e rgy o to The sun radiation MJ/m2 the sun when there is 60000K har 10 on the surface defined spread photons at its maximum _ _ energy (about 2 eV) . _ x acts . _ _ It connects the Earth 's surface with the atmosphere _ _ radiation en e rgy currents are about 1 kW / m2 , but they are fi maximum long 5-25 thick in attr μm wave d e flexible _ _ sp e ctral diapause o nni closed puts _ Sp e ktr according to short wavy and long wavy radiations different from each other located on the far side and them o s o n separate can Known at times known in jobs _ known way the sun attached to the device most energy _ as the sun radiation



1 - drawing: φ k e ngliness and ψ length determination s xe masi device .

use energy show as much as possible imagination it is useful do Solar geometries will and to 1 - place it in the drawing the structure is raised. The land is its own arrow 24 hours a day _ _ _ turning around comes out (arrow N and S northwest and southern points goes back and forth). Arrow p e rp e nicular to equ o t o rial t e smallness direction _ Points P, E and G on the surface k length Earth e ngliness and the back x aract e r . Here , the 1st equatorial climate , the 2nd meridional climate . _ _ _ _ at point sunny half from atli corner day to day the turning angle is felt Y e 1 S o at 3600 /24 = turns , r 150 angles in which case it is correct corner with the following if o _ defined as :

$$\omega = (15o \cdot s-1) \cdot (t_{solar} - 12 \ s) = (15o \cdot s-1) - (t_{zone} - 12 \ s) = \omega eq = (\psi - \psi_{zone})$$

this here _ tsola and tzone -m o s _ local the sun and d e c r e t time (in hours); $\psi_{zone-tzone}$ time half when mos k e to the day the space where the sun shines (local _ the sun and when the d e c r e t times are m o s c e , i.e. t $_{solar}$ = t $_{zone}$ when). Earth is the sun atr o fida per year one times becomes _ The direction of the Earth 's axis rotation rate is normal _ _ _ _ to the line $_0$ =23.50 angle at δ phase o in his style when installed _ _ is stored . To the sun direction and

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equat o rial t e kiss in o corner δ o gish d e will cry and Seasonal changes are felt Oh my gosh the sun time according to is the latitude of the point where the sun is located on the horizon . Pants o liy half in the ball δ summer
sun stand up from the era δ Winter from $_0$ =+23.50 the sun stand up to the period δ_0 = -23.50 s starts to
change,
$\delta = \delta 0 \cdot \text{Sin} [360 \ 0 \cdot (284 = n)/365]$
this n- years on earth on (n=1 to January 1 suitable will come)
All to the parties spreadable the sun light energy 4 ·1020
mln . kW the organize does _ From this amount to the ground _ from a billion one part
falls and it is 1.78 ·1017 W is enough Energy used on earth
and 3 ·1011 MJ organize does _ Earth to the surface a lot of energy
part of it of falling reasons :
➤ Earth rotation _ read on o _ because of from the horizon height of the sun
;
➤ the state of the atmosphere ;
> of surfaces optical _ x features .
Acceptable shar o dogs , that is back to back in the near future the sun is high is , hav o while get out radiation up to 1 kW per 1 m2 surface en e rgy fall can _ The sun energy change two method available : 1. The sun to save energy to energy direct conversion (photo converters using). 2. The sun radiation heat to en e rgy change (sun c o 1 l e c t o r s using).
The sun radiation straight away change for semiconductor materials are used The sun batteries all wide range of radio electrical equipment is used . Environment to the effect stability for they are get out from + 800C to -1500C at room temperature _ in shar o dogs that are can work . Half conductive of solar elements external surface radiation from the effect and protect from heat optical _ layer with go plane.
q o plans .
Summary: This in my article Again recoverable energy from your sources use about information
giving I passed. Exactly again recoverable alternative energy of sources the sun energy about data I collected and my experiences to the result based on I wrote Current of the day to our house coming
the sun to the panels need to be light and light time how much to be need about more complete I tried
to explain. Acceptable shar o dogs, that is back to back in the near future the sun in the corner is,
hav o while get out up to 1 kW per 1 m2 surface radiation energy fall can Earth falling on the
surface
the sun en e rgy right and scattered radiations are felt in the
body Concentrations are falling right radiation
sense work reach back _ in case of death _ of the device seeing
the feeling of heat we went out

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