International Journal of Computer Science Engineering
and Information Technology Research (IJCSEITR)
ISSN(P): 2249-6831; ISSN(E): 2249-7943
Vol. 4, Issue 5, Oct 2014, 125-132

AN ALGORITHM OF CALCULATING INSOLATION FOR PLANETS OF THE SOLAR SYSTEM WITHOUT THE ACCOUNT OF ATMOSPHERIC ENVELOPE

KHUJAEV J. I

Tashkent, Uzbekistan

ABSTRACT

An algorithm of calculating insolation for planets of the solar system without the account of atmospheric envelope

A mathematical model and algorithm for calculating the diurnal and annual insolation changes for the planets without the account of atmosphere is developed. The factors such as geographical latitude, the declination of the sun, the distance between the planet and the sun, the boundaries of the "White Nights" and "dark days" are taken into account. The discussion of some results of numerical experiments is given.

KEYWORDS: Planets, Atmosphere, Thermodynamic