

ON THE MINIMIZATION OF THE SOLAR TRACKER INCIDENCE ANGLE

I. VIȘA¹ D. DIACONESCU¹ V. DINICU¹
B. BURDUHOS¹

Abstract: *This paper presents the modelling of the sun-ray unit vector and of a solar panel normal unit vector in the reference system of an observer from Earth. Using the resulted formulae set there is modelled and numerical simulated the sun ray-solar panel incidence angle variation. The comparative analysis of the results gives useful conclusions regarding the incidence angle minimization.*

Key words: *incidence angle, sun-ray unit vector, panel normal unit vector.*

¹ Dept. of Product Design and Robotics, Transilvania University of Braşov.