

SNS COLLEGE OF TECHNOLOGY, COIMBATORE-35 DEPARTMENT OF MECHANICAL ENGINEERING



16MEOE1-Solar Energy Utilisation – UNIT I INTRODUCTION TO SOLAR ENERGY

Topic - Sun as the source of energy- sun angles hormal to that Surface.

Additional Angles:

These angles defines the position of the Sun in the Sky.

Oz Zerrith angle

Angle between the vertical and the line to
the Sun (i.e) the angle of incidence of beam radiation
on a horizontal Surface

No - Solar Attitude angle !-The angle between the horizontal and the line to the Sun, (i.e) the Complement of the Zeinth angle.

Vs - Solar azimith angle:
The angular displacement from South of the
The angular displacement from South of the
projection of beam radiation on the horizontal plane,
projection of beam radiation on the horizontal plane,
sisplacements east of South are negative and
west of South are positive.

S = 23.45 gin $\left(360\left(\frac{284+n}{365}\right)\right)$ Normal to vorizontal Surface

