







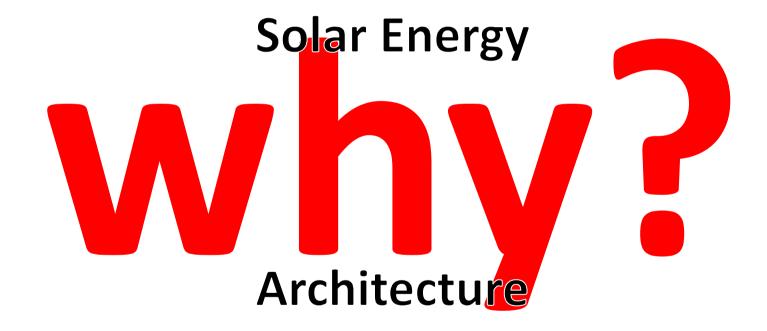
Solar Energy in Architectural Education





















NYCPEOPLEWATCHER











marialice.wordpress.com











emilezier.blogspot.com



















the-universality-of-cheese.blogspot.com





















http://slowmuse.wordpress.com









heat cold radiation wind humidity

allimate

κλιμα

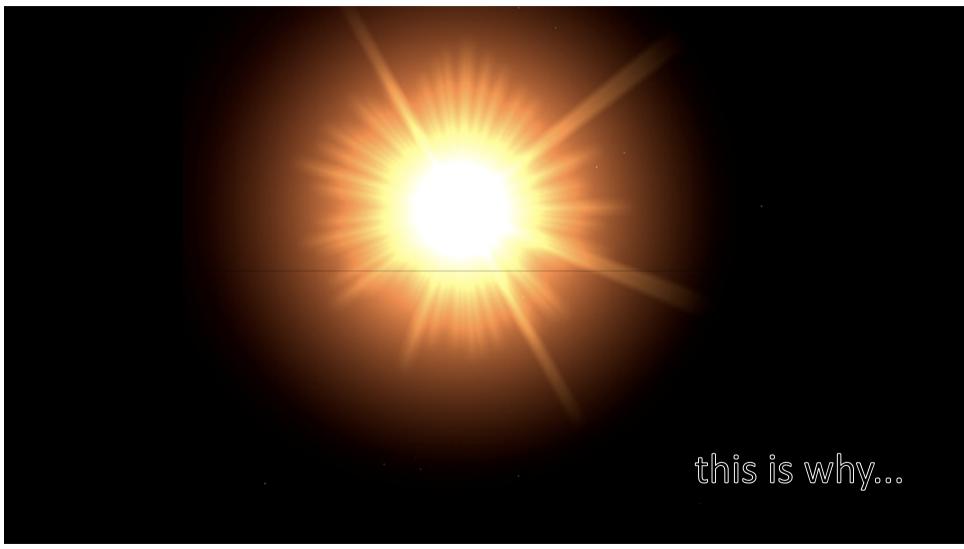
(*klima* = inclination)











http://www.swpc.noaa.gov









Solar Energy Architecture









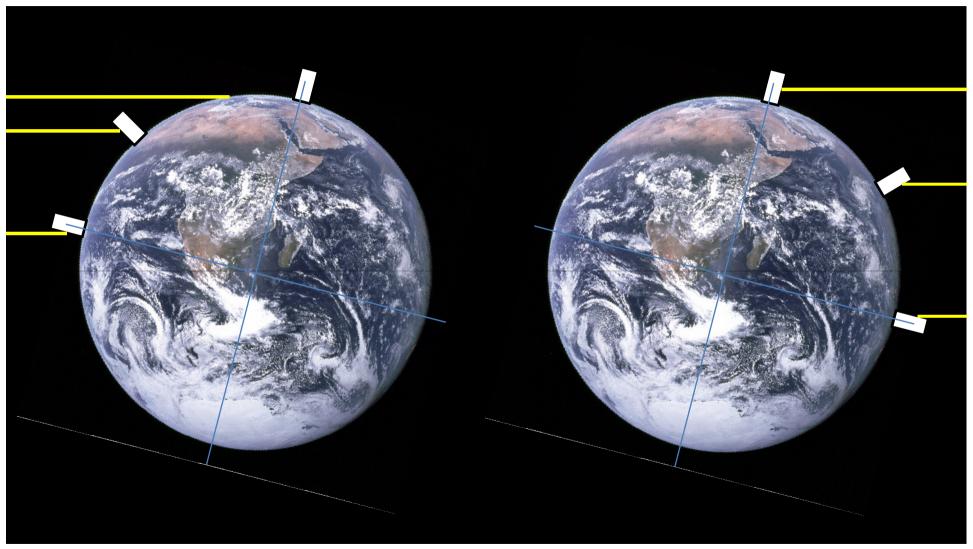


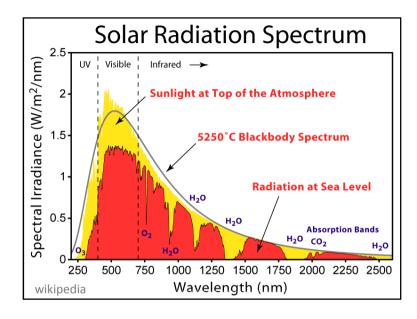
photo: http://upload.wikimedia.org/wikipedia/commons/9/97/The_Earth_seen_from_Apollo_17.jpg

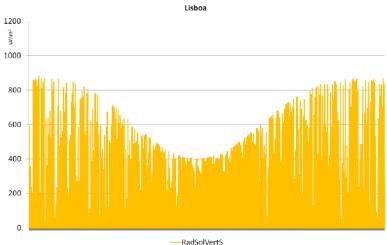




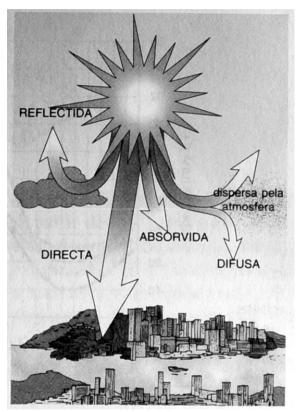












CANHA da PIEDADE et al, 2000









$$\delta = 23,45 \cdot sen\left(360 \cdot \frac{284 + N}{365}\right)$$

$$H = 15 \cdot [12 - (t \pm 0.0667 \cdot long)]$$

$$h = arcsen(sen \ L \cdot sen \ \delta + \cos \ L \cdot \cos \ \delta \cdot \cos \ H)$$

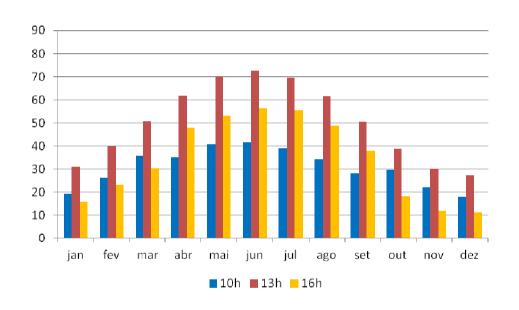
$$A = \arccos\left(\frac{sen\ L \cdot sen\ h - sen\ \delta}{\cos\ L \cdot \cos\ h}\right)$$

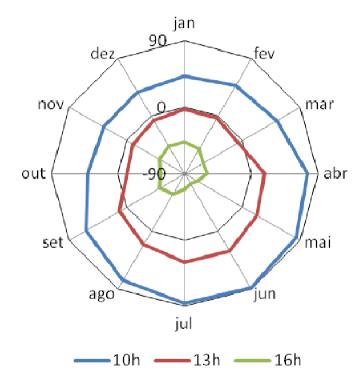










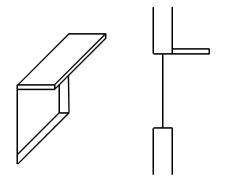


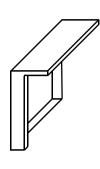


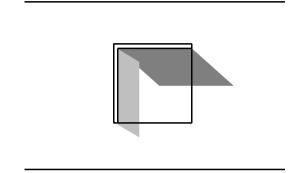


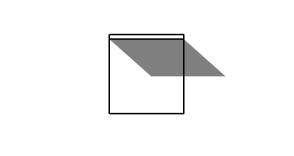


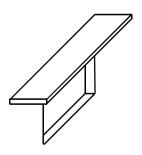


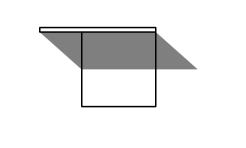










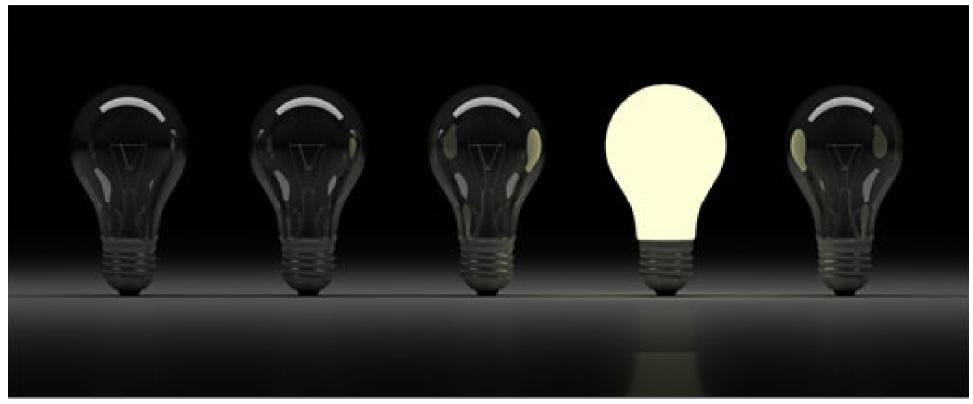












www.failure101.org

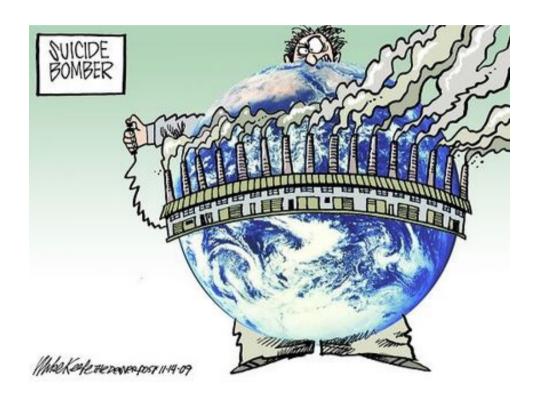






















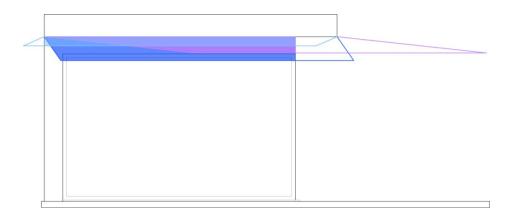
Pedro Cabrito, Edifício Solar XXI, LNEG

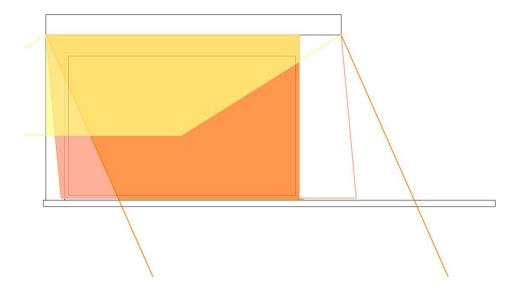










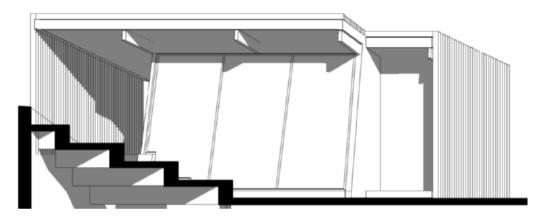


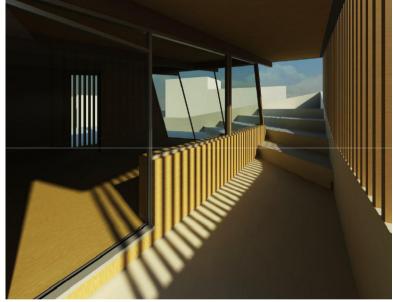


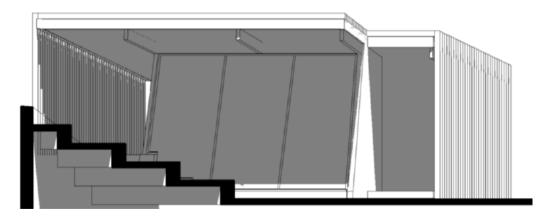




















teachers

future...









talent + knowledge









Solar Energy in Architectural Education

thank you...