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## NOMENCLATURE

$g$	incidend solar radiation , $Wm^{-2}$
$k_d$	diffuse fraction
$k_t$	clearness index
$m_A$	air mass
$r$	(Earth's radius)/(atmosphere height) ratio
$T$	turbidity

## Greek symbols

$\delta_R$	proportional coefficient Eq.(7)
$\varphi$	solar elevation angle
$\tau$	transmission coefficient

## Subscripts

a	air
bh	direct (beam)-horizontal plane
d	diffuse
in	extraterrestrial on h-plane
max	maximum
min	minimum