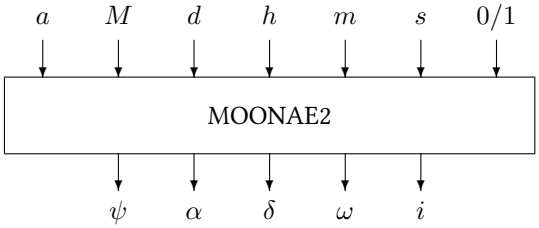
Block MOONAE2

The MOONAE2 block calculates the position of the Moon in horizon and equator coordinates.





Model,
φ, λ, Z

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Function	em0040
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Inputs

1 Year a (for example 2021)
2 Month $M \in [1, 12]$
3 Day $d \in [1, 31]$
4 Hour $h \in [0, 23]$
5 Minute $m \in [0, 59]$
6 Second $s \in [0, 60)$

Outputs

1 Azimuth ψ (north $= 0°$, east $= 90° \ldots$ west $= 270°$)
2 Elevation α / °
3 Declination δ / °
4 Hour angle ω ($0° \ldots 360°$west)
5 Moon phase angle i ($0°$: full moon, $90°$: half-moon, $180°$: new moon)

Parameters

1 Latitude $\varphi \in [-90°, +90°]$, northern hemisphere positive
2 Longitude $\lambda \in [0°, 360°)$, Greenwich $= 0°$, **east positive**
3 UTC-Time zone $Z \in [-12, 12]$, e. g. Central European Time: $Z = +1$

Strings

None