

Package ‘homeR’

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Type Package

Title Functions useful for building physics

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Description A collection of functions useful for the analysis of building physics experiments.

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LazyLoad yes

Encoding UTF-8

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pmv

Predicted Mean Vote

Description

Computes Fanger's predicted mean vote

Usage

```
pmv(clo, met, air.temp, saturation)
```

Arguments

clo	Thermal insulation of clothing in [clo] (underwear, blouse/shirt, slacks/trousers, jacket, socks and shoes are approximately 1 clo)
met	Physical activity in [met] (one person seated at rest is approximately 1 met)
air.temp	Indoor air temperature (assumed equal to mean radiant temperature) in [C]
saturation	Ratio of moisture content to moisture content of saturated air at the same temperature, in [%] (approximately the same thing as relative humidity)

Details

Compute the predicted mean vote for one or more combinations of clo, met, air temperature and moisture saturation. The inputs arguments can be scalars or vectors.

Value

The predicted mean vote, a value between -3 (cold) to +3 (hot)

Author(s)

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References

CIBSE Guide A, section 1.4 and 1.A1.2 (from which this implementation is derived)

Examples

```
# With scalars
pmv(clo=1.0,
    met=1.2,
    air.temp=19,
    saturation=40)

# With vectors
pmv(clo=c(1.0, 1.5),
    met=c(1.2, 0.6),
```

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```
air.temp=c(19,30),  
sat=c(35, 40))
```

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