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NOMENCLATURE

F_{nude}	fractions of the naked area for each segment
F_{closed}	fractions of the clothed area for each segment
q_{fat}	heat gain from fat metabolic heat production
M_{skin}	heat gain from skin metabolic heat production
$q_{skin-env}$	sensible heat losses from nude to the environment
$q_{skin-clo}$	sensible heat losses from clothed skin to the environment
$q_{evap,skin-env}$	latent heat exchanges from the naked
$q_{evap,skin-clo}$	latent heat exchanges from the clothed skin
A	total skin surface area of the segment
T_{skin}	skin temperature
T_{air}	ambient air temperature
$q_{vf-skin}$	radiative heat transfer calculated by view factors, W/m^2
h_c	coefficient of the convective heat exchange, $W\cdot m^{-2}\cdot {}^{o}C^{-1}$
$q_{skin-clo}$	obtained by the temperature difference between skin and the clothing
I_{clo}	number of clo unit for the intrinsic thermal resistance of the clothing
P_{skin}	partial vapor pressures at skin, kPa
w	skin wettedness, calculated by BTCM
$R_{e,air}$	evaporative resistance of ambient air, $kPa\cdot m^2\cdot W^{-1}$
$q_{evap,\ skin-clo}$	The latent heat exchange from the clothed skin to the clothing
C_{H_2O}	specific heat of water (4.2×10^3J $kg^{-1o}C^{-1}$)
m_{clo}	heat absorbed by the clothing
$q_{clo-env}$	sensible heat losses between the clothing and the environment
$q_{evap,clo-env}$	sensible and latent heat losses between the clothing and the environment