

Variable	Symbol	Value	Units	Reference
Reference enthalpy	H_m	0	J kg^{-1}	
Ice density	ρ_i	917	kg m^{-3}	Cuffey and Paterson (2010)
Snow density	ρ_s	300	kg m^{-3}	
Water density	ρ_w	1000	kg m^{-3}	
Specific heat capacity	C_p	2097	$\text{J kg}^{-1} \text{K}^{-1}$	Cuffey and Paterson (2010)
Latent heat of fusion	L_f	3.335×10^5	J kg^{-1}	Cuffey and Paterson (2010)
Thermal conductivity of ice	k_i	2.1	$\text{J m}^{-1} \text{K}^{-1} \text{s}^{-1}$	Cuffey and Paterson (2010)
Thermal conductivity of snow	k_s	0.2	$\text{J m}^{-1} \text{K}^{-1} \text{s}^{-1}$	Calonne et al. (2011)
Moisture diffusivity	ν	1×10^{-4}	$\text{kg m}^{-1} \text{s}^{-1}$	Aschwanden et al. (2012)