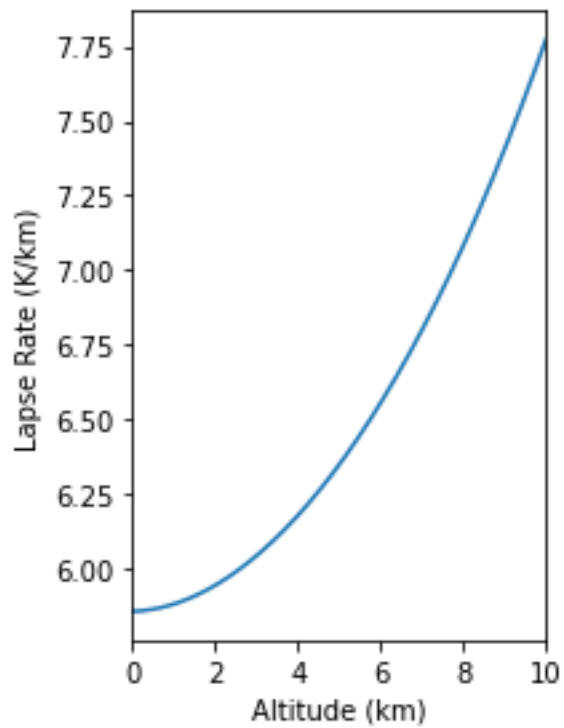
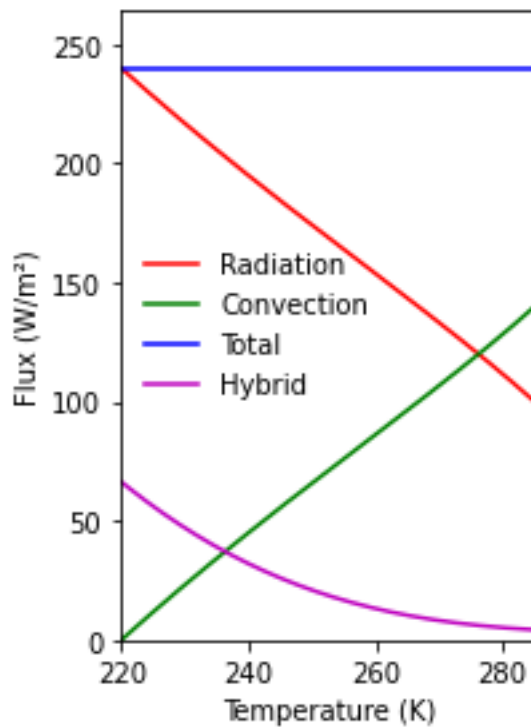
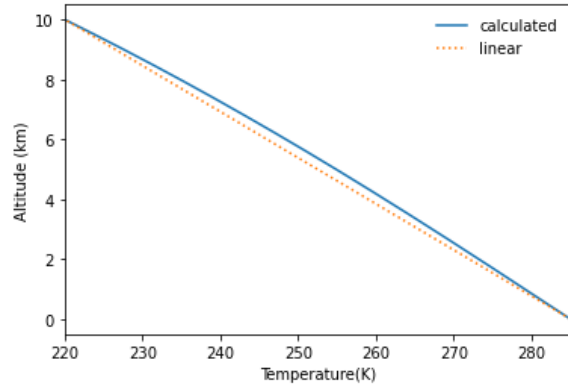


Linear

$\lambda = (\lambda_0 / \text{height}) * \text{poly}([1, 1.97]) * \text{poly}([1])$
 $\kappa = (\kappa_0 / \text{height}) * (\text{poly}([1, -1]) * \text{poly}([1]))$
 New coefficients: 1.5888 23.473
 New coefficients: 1.5576 23.909
 New coefficients: 1.5576 23.915
 New coefficients: 1.5576 23.915
 New coefficients: 1.5576 23.915

Boundary Temperatures: 285.00K, 220.00K
 Tropopause: 10.00 km
 Mean Flux (W/m^2): 240.011, Std Dev: 0.000099
 Surface Fluxes (W/m^2):
 Total 240.010
 Radiation 99.999
 Convection 140.011
 T1 Sensitivity: $4.55 (\text{W/m}^2/\text{K})$
 T2 Sensitivity: $-2.95 (\text{W/m}^2/\text{K})$
 3.631 seconds



US Std Atmosphere

$\lambda = (\lambda_0 / \text{height}) * \text{poly}([1.0000, 0.5403, 0.1805, 0.0510]) * \text{poly}([1])$

$\kappa = (\kappa_0 / \text{height}) * (\text{poly}([1, -1]) * \text{poly}([1]))$

New coefficients: 2.0818 30.070

New coefficients: 1.9781 30.266

New coefficients: 1.9774 30.286

New coefficients: 1.9774 30.286

New coefficients: 1.9774 30.286

Boundary Temperatures: 285.00K, 220.00K

Tropopause: 10.00 km

Mean Flux (W/m²): 240.011, Std Dev: 0.000012

Surface Fluxes (W/m²):

Total 240.012

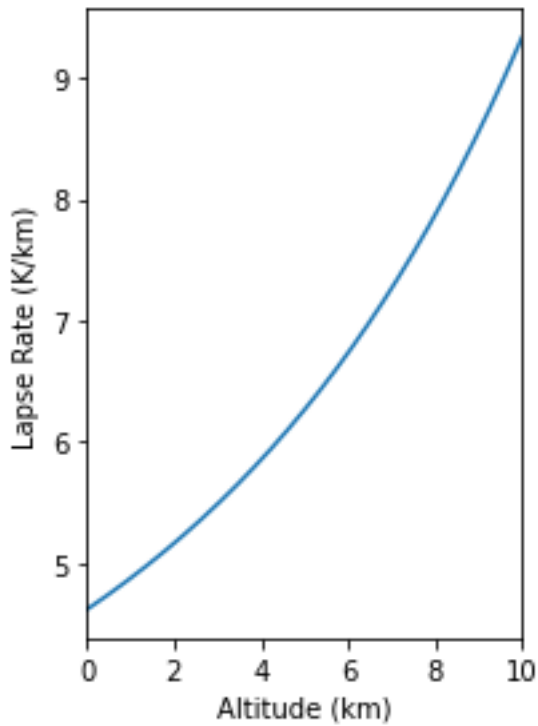
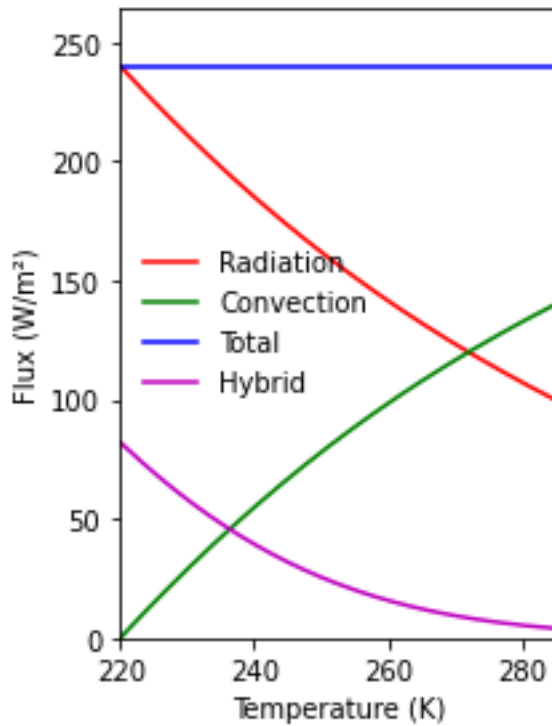
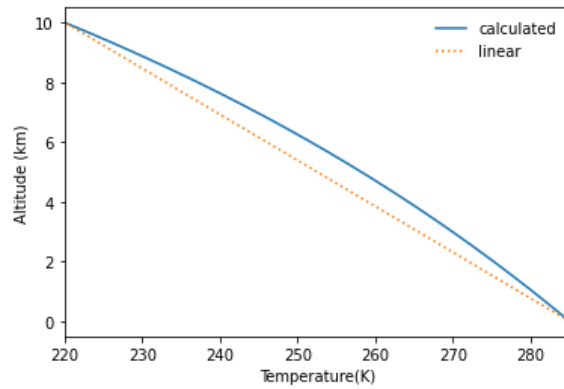
Radiation 99.999

Convection 140.012

T1 Sensitivity: 4.48 (W/m²/K)

T2 Sensitivity: -3.01 (W/m²/K)

5.011 seconds



Enhanced Surface Convection

$$\lambda = (\lambda_0 / \text{height}) * \text{poly}([1.0000, 0.5403, 0.1805, 0.0510]) * \text{poly}([1])$$

$$\kappa = (\kappa_0 / \text{height}) * (\text{poly}([1, -1]) * \text{poly}([1, 1]))$$

New coefficients: 1.7140 25.128

New coefficients: 1.6523 25.245

New coefficients: 1.6520 25.251

New coefficients: 1.6520 25.251

New coefficients: 1.6520 25.251

Boundary Temperatures: 285.00K, 220.00K

Tropopause: 10.00 km

Mean Flux (W/m²): 240.014, Std Dev: 0.000066

Surface Fluxes (W/m²):

Total 240.014

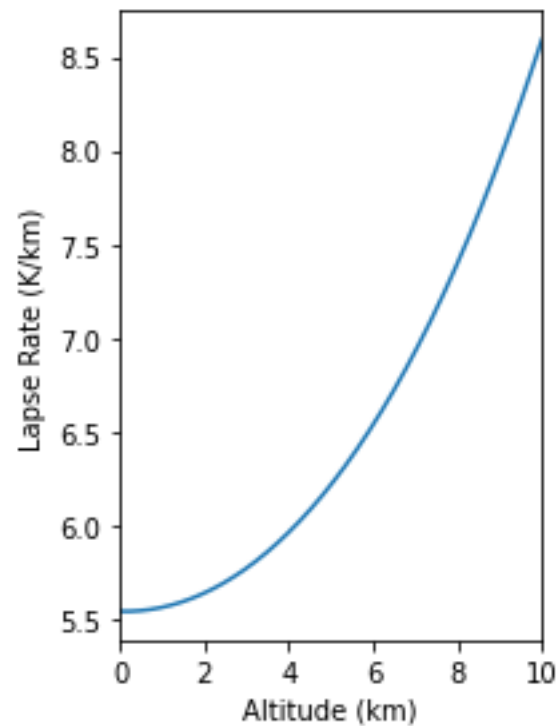
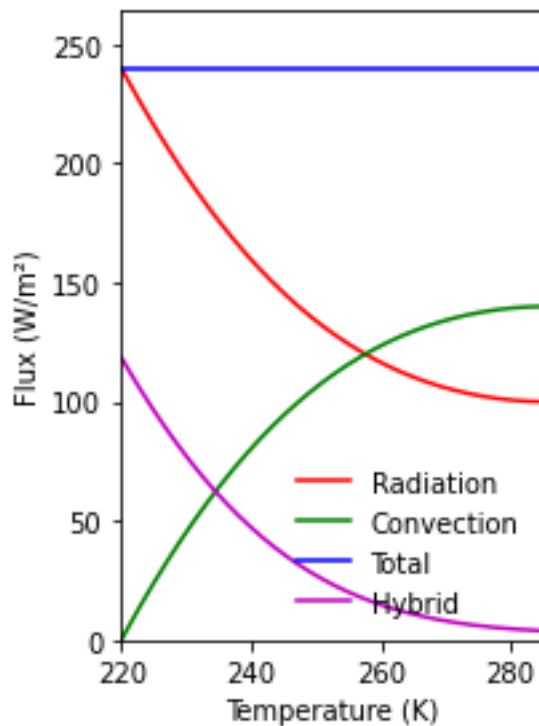
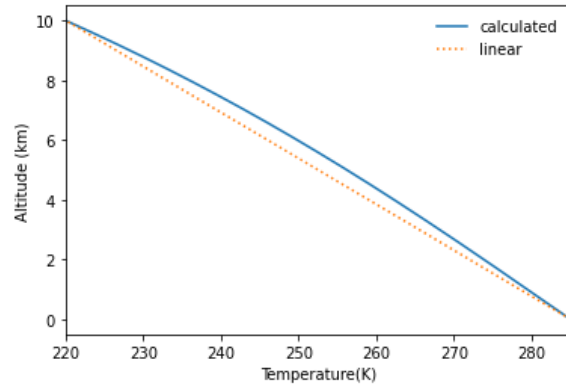
Radiation 100.000

Convection 140.014

T1 Sensitivity: 4.36 (W/m²/K)

T2 Sensitivity: -3.12 (W/m²/K)

5.180 seconds



More Enhanced Surface Convection

$$\lambda = (\lambda_0 / \text{height}) * \text{poly}([1.0000, 0.5403, 0.1805, 0.0510]) * \text{poly}([1])$$

$$\kappa = (\kappa_0 / \text{height}) * (\text{poly}([1, -1]) * \text{poly}([1, 5]))$$

New coefficients: 0.9842 17.913

New coefficients: 0.9838 17.908

New coefficients: 0.9838 17.908

New coefficients: 0.9838 17.908

New coefficients: 0.9838 17.908

Boundary Temperatures: 285.00K, 220.00K

Tropopause: 10.00 km

Mean Flux (W/m²): 240.077, Std Dev: 0.019232

Surface Fluxes (W/m²):

Total 239.978

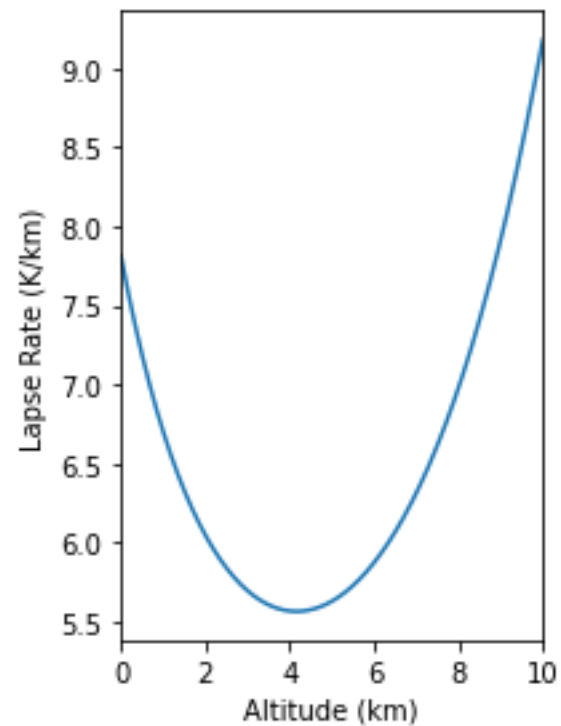
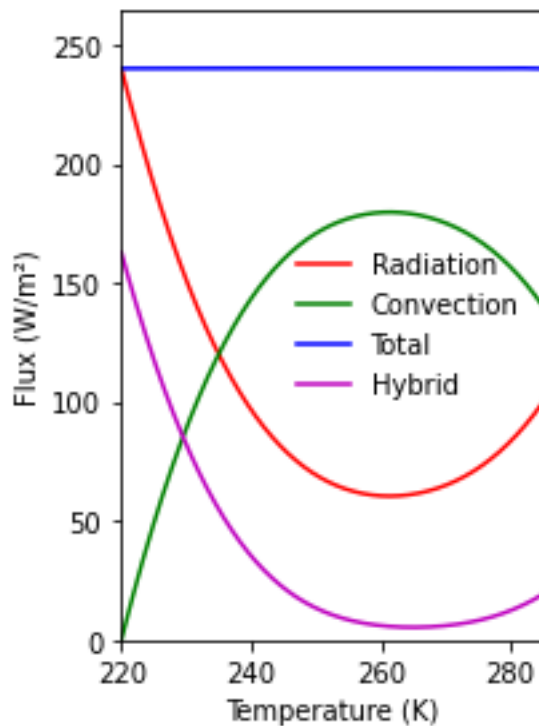
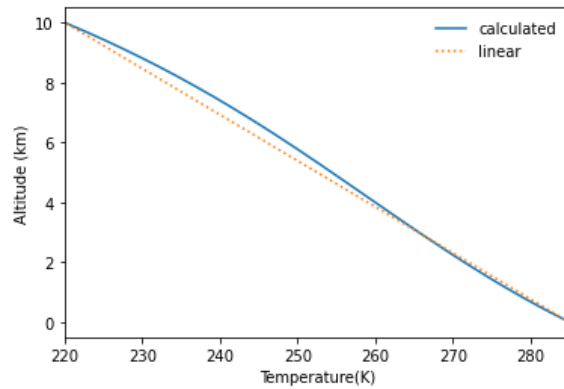
Radiation 100.003

Convection 139.975

T1 Sensitivity: 4.08 (W/m²/K)

T2 Sensitivity: -3.34 (W/m²/K)

4.925 seconds



Even More Enhanced Surface Convection

$$\lambda = (\lambda_0 / \text{height}) * \text{poly}([1.0000, 0.5403, 0.1805, 0.0510]) * \text{poly}([1])$$

Boundary Temperatures: 285.00K, 220.00K

Tropopause: 10.00 km

Mean Flux (W/m²): 240.168, Std Dev: 0.086099

Surface Fluxes (W/m²):

Total 239.651

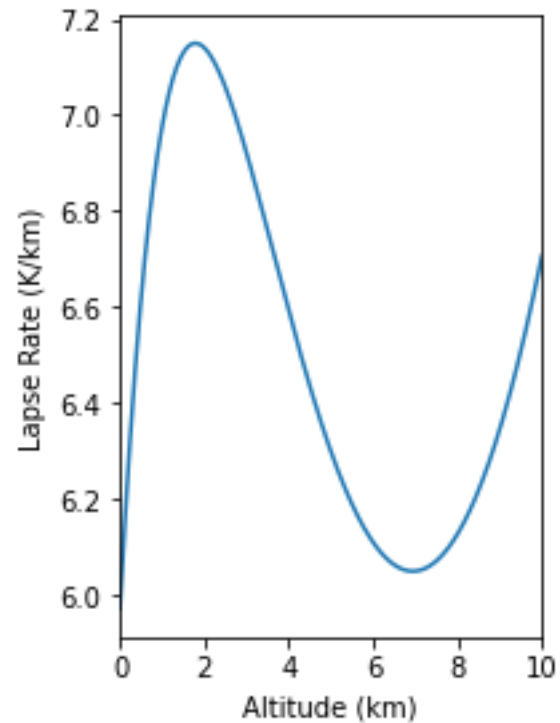
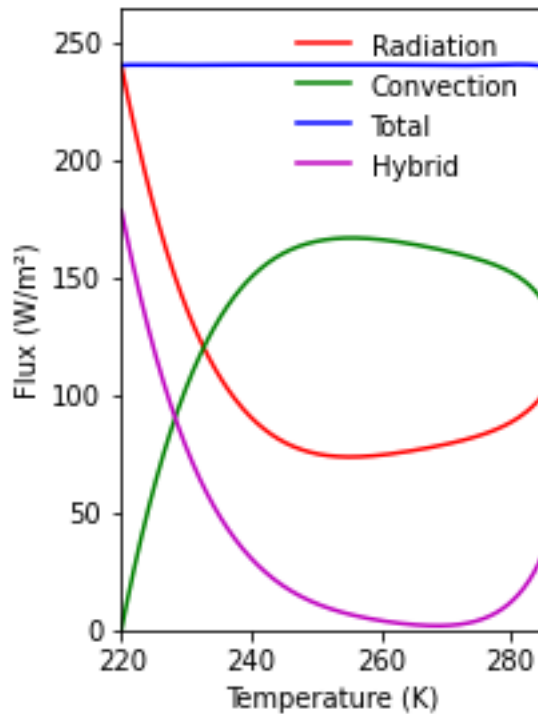
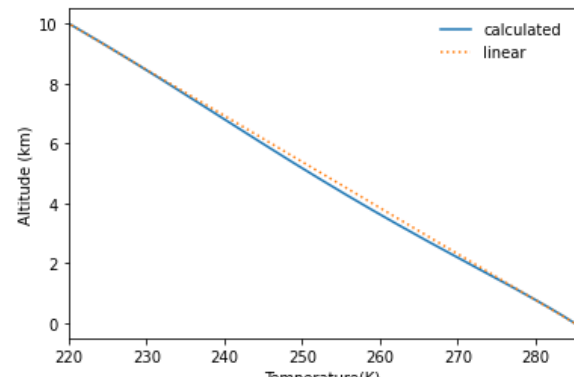
Radiation 100.006

Convection 139.645

T1 Sensitivity: 4.02 (W/m²/K)

T2 Sensitivity: -3.31 (W/m²/K)

6.321 seconds



Enhanced Surface Radiative Transmission

$\lambda = (\lambda_0 / \text{height}) * \text{poly}([1.0000, 0.5403, 0.1805, 0.0510]) * \text{poly}([1, 1])$

$\kappa = (\kappa_0 / \text{height}) * \text{np.array}([1, -1])$

New coefficients: 1.5365 22.912

New coefficients: 1.5073 23.320

New coefficients: 1.5072 23.326

New coefficients: 1.5072 23.326

New coefficients: 1.5072 23.326

Boundary Temperatures: 285.00K, 220.00K

Tropopause: 10.00 km

Mean Flux (W/m²): 240.011, Std Dev: 0.000007

Surface Fluxes (W/m²):

Total 240.011

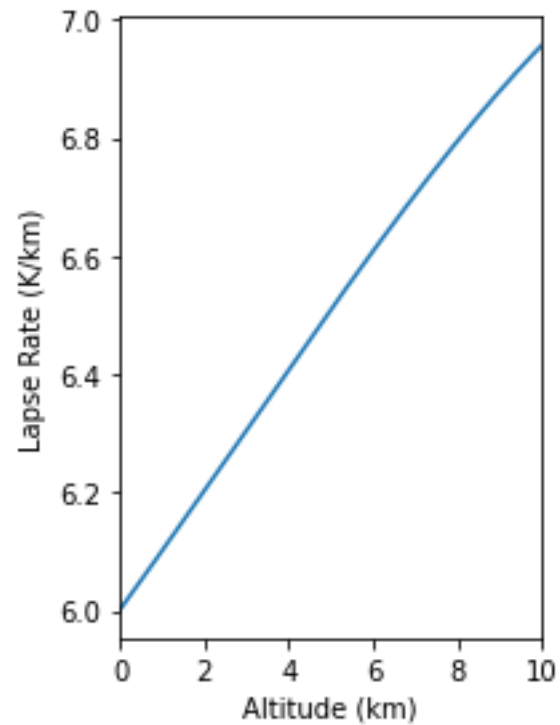
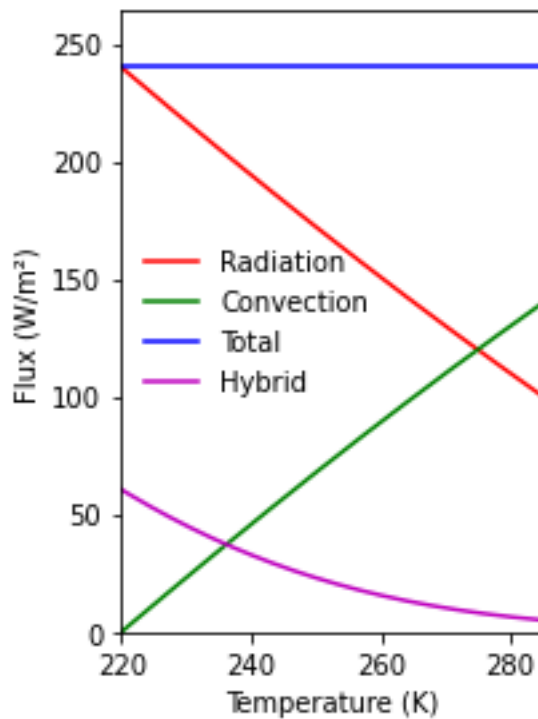
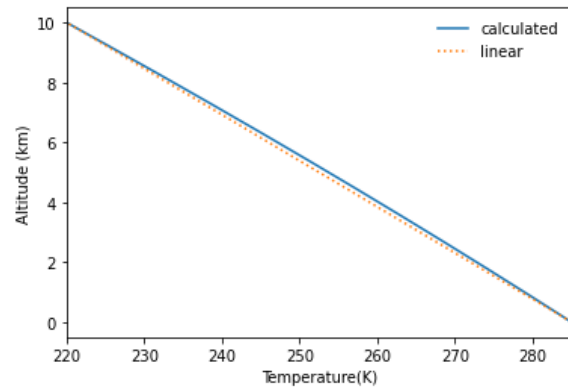
Radiation 99.999

Convection 140.012

T1 Sensitivity: 4.53 (W/m²/K)

T2 Sensitivity: -2.96 (W/m²/K)

4.313 seconds



More Enhanced Surface Radiative Transmission

$$\lambda = (\lambda_0 / \text{height}) * \text{poly}([1.0000, 0.5403, 0.1805, 0.0510]) * \text{poly}([1, 5])$$

$$\kappa = (\kappa_0 / \text{height}) * \text{np.array}([1, -1])$$

New coefficients: 0.9273 14.460

New coefficients: 0.9179 14.535

New coefficients: 0.9178 14.535

New coefficients: 0.9178 14.535

New coefficients: 0.9178 14.535

Boundary Temperatures: 285.00K, 220.00K

Tropopause: 10.00 km

Mean Flux (W/m²): 240.067, Std Dev: 0.020017

Surface Fluxes (W/m²):

Total 239.962

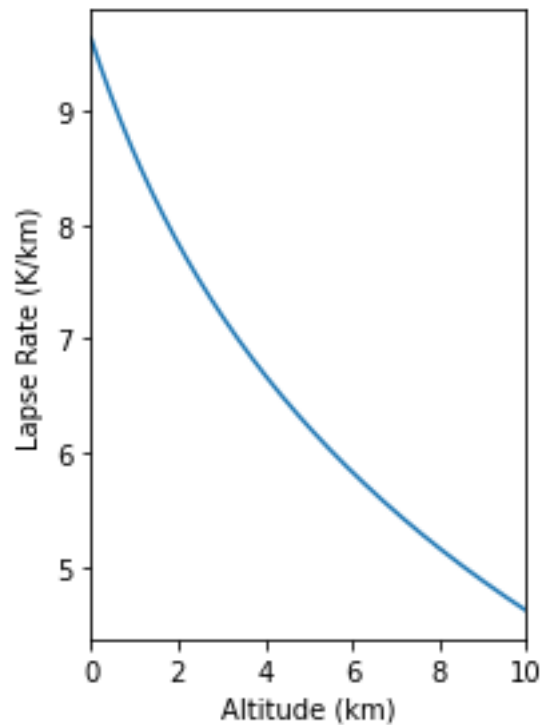
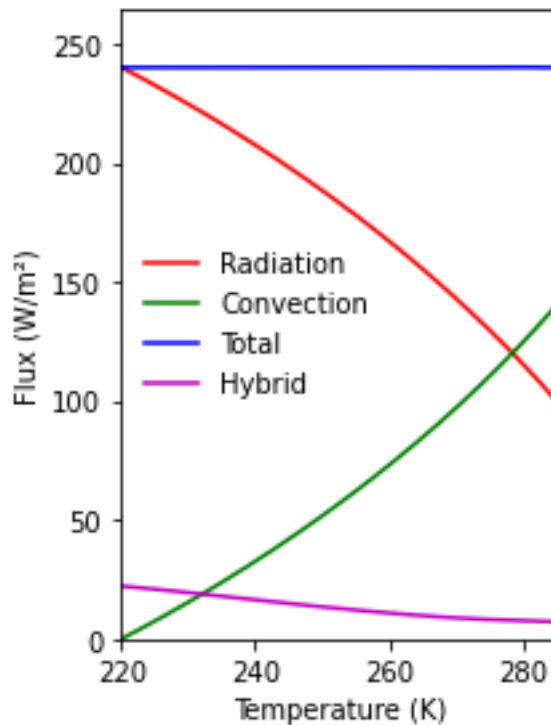
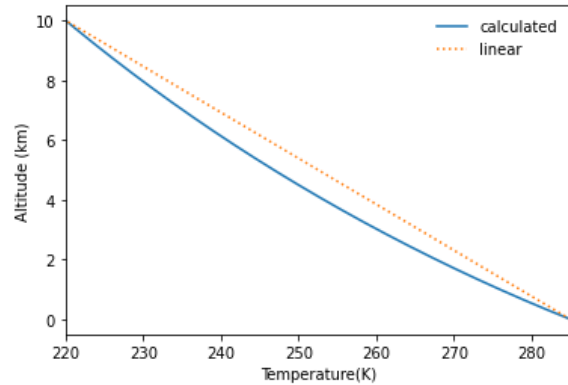
Radiation 99.999

Convection 139.963

T1 Sensitivity: 4.62 (W/m²/K)

T2 Sensitivity: -2.87 (W/m²/K)

5.164 seconds



Even More Enhanced Surface Radiative Transmission

$$\lambda = (\lambda_0 / \text{height}) * \text{poly}([1.0000, 0.5403, 0.1805, 0.0510]) * \text{poly}([1, 0, 5])$$

$$\kappa = (\kappa_0 / \text{height}) * \text{np.array}([1, -1])$$

New coefficients: 1.1390 17.111

New coefficients: 1.1307 17.453

New coefficients: 1.1302 17.462

New coefficients: 1.1302 17.462

New coefficients: 1.1302 17.462

Boundary Temperatures: 285.00K, 220.00K

Tropopause: 10.00 km

Mean Flux (W/m²): 240.403, Std Dev: 0.105144

Surface Fluxes (W/m²):

Total 240.063

Radiation 99.999

Convection 140.064

T1 Sensitivity: 4.51 (W/m²/K)

T2 Sensitivity: -2.99 (W/m²/K)

6.644 seconds

