Hochschule Bremen
City University of Applied Sciences

HSB

Atmospheric re-entry

Guided Work (3)

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Extend your simulation model for the re-entry trajectory of your selected re-entry mission with the following feature:

- Calculate and plot the heat flux and integrated heat flux for the stagnation point of your vehicle as a function of time

- For the calculation, use the simplified model for the sum of convective and radiative heat flux as provided in the lecture

- Check the value of the maximum heat flux against the limits for different heat protection materials