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## Annex D. XDSM and N2 Diagrams

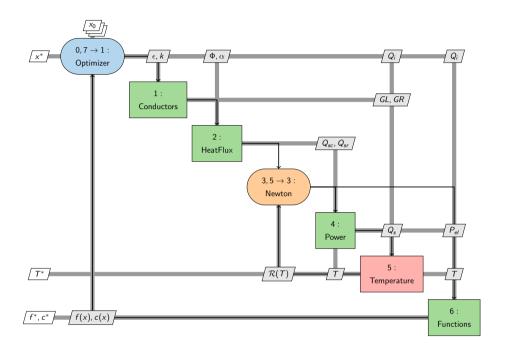


Fig. D.1. XDSM diagram for MAT optimization problem. The data flow in the figure is shown as thick gray lines. Components take data inputs from the vertical direction and output data in the horizontal direction. The thin black lines show the process flow, with numbers showing the order in which the components are executed.

ANNEXES 133

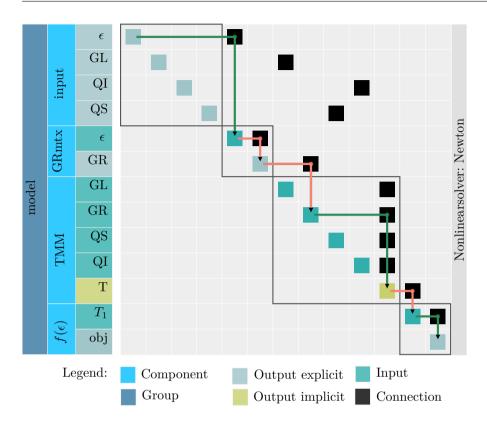


Fig. D.2. N2 diagram of the CubeSat optimization model in OpenMDAO