



Mechanical & Industrial Engineering
UNIVERSITY OF TORONTO

Thermo-mechanical Behaviour of Blisk for Gas Turbine Engines

Recent developments in gas turbine engine design led to the development of integrated “blade-disk” designs known as blisks. This helps avoid many of the problems associated with axial compressors. The objectives of this project are to conduct: (i) structural analysis, (ii) thermal analysis, and (iii) modal analysis using the finite element method. Validation of the FE model will also be required.

Supervisor: Director: Dr. S. A. Meguid
meguid@mie.utoronto.ca
www.mie.utoronto.ca/labs/madl