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Aero-thermo-elastic Flutter Analysis of Supersonic Moderately Thick Orthotropic Plates with General Boundary Conditions

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**Highlights**

- A unified solution for the aero-thermo-elastic flutter problems of the supersonic moderately thick orthotropic plate is proposed.
- Supersonic plates with elastic boundary condition can be dealt with precisely.
- The temperature dependence of material properties is taken into consideration.
- The effects of the aerodynamic pressure, yawed flow angle, thermal loads and boundary conditions on the flutter characteristics of the plates are clearly figure out.

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