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**Aerodynamics and
Flight The wings**

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used to estimate
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of control

surfaces and the
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to actuate these
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interference

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other important

applications.

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applied to both

low speed and

high speed

flows. Viscous

flows are also

covered, with a

focus on

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focus on vortex
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The goal is to
improve
understanding of

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of motion for a
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body and then
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configurations
are currently
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the validation
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employed in preliminary design studies of hypersonic flight vehicles. Unlike studies aimed at validating such methods for predicting overall vehicle aerodynamics, this effort emphasizes

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examined. By comparing the theoretical predictions with these data, the strengths and weaknesses of the local surface inclination methods can be ascertained and possible improvements

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Central to this
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development of a
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trim, can be determined. In addition to the current work, two different research directions are suggested for future study. The first is aimed at developing an interactive

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Much-needed,
fresh approach
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