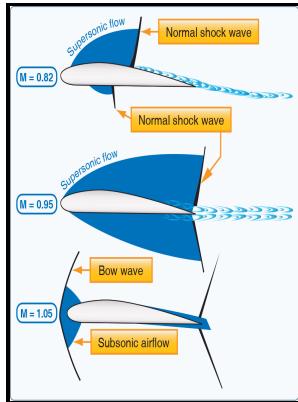


Hypersonic turning with constant bank angle control

Rand Corporation - Hypersonic reentry trajectory planning by using hybrid fractional

Description: -



Mann, Thomas, -- 1875-1955 -- Influence.
Döblin, Alfred, -- 1878-1957 -- Influence.
Mann, Thomas, -- 1875-1955 -- Criticism and interpretation.
Döblin, Alfred, -- 1878-1957 -- Criticism and interpretation.
New York (State) -- Description and travel.
Canada -- Description and travel.
Seedlings.
Fir.
Hindu law
Space vehicles -- Atmospheric entry.Hypersonic turning with constant bank angle control

Research memorandum (Rand Corporation) -- RM-4483-PR..
Memorandum-- RM-4483-PRHypersonic turning with constant bank angle control
Notes: Bibliography: p. 43.
This edition was published in 1965



Filesize: 64.15 MB

Tags: #Hypersonic #speed

An on

Experiment results verified the design concept and control strategy of the mechanism. We will label this force the turning component of lift, L_t .

Banked turn

The aircraft is turned through the action of the side component of the lift force.

Variable angle compensation control of noncircular turning

The horizontal component is unbalanced, and is thus causing the aircraft to accelerate inward and execute the turn. A tradeoff between altitude and flight-path angle at terminal descent initiation is identified. Flow in this regime is still Mach number dependent.

Low

Simulations start to depend on the use of a constant-temperature wall, rather than the adiabatic wall typically used at lower speeds. GAO Q, ZHAO J B, LI Q. For example, a plane with a total lift five times greater than its weight experiences a load factor of 5 g's.

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