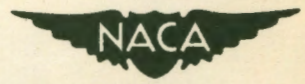
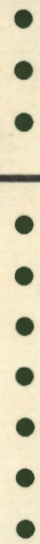


116.3-64

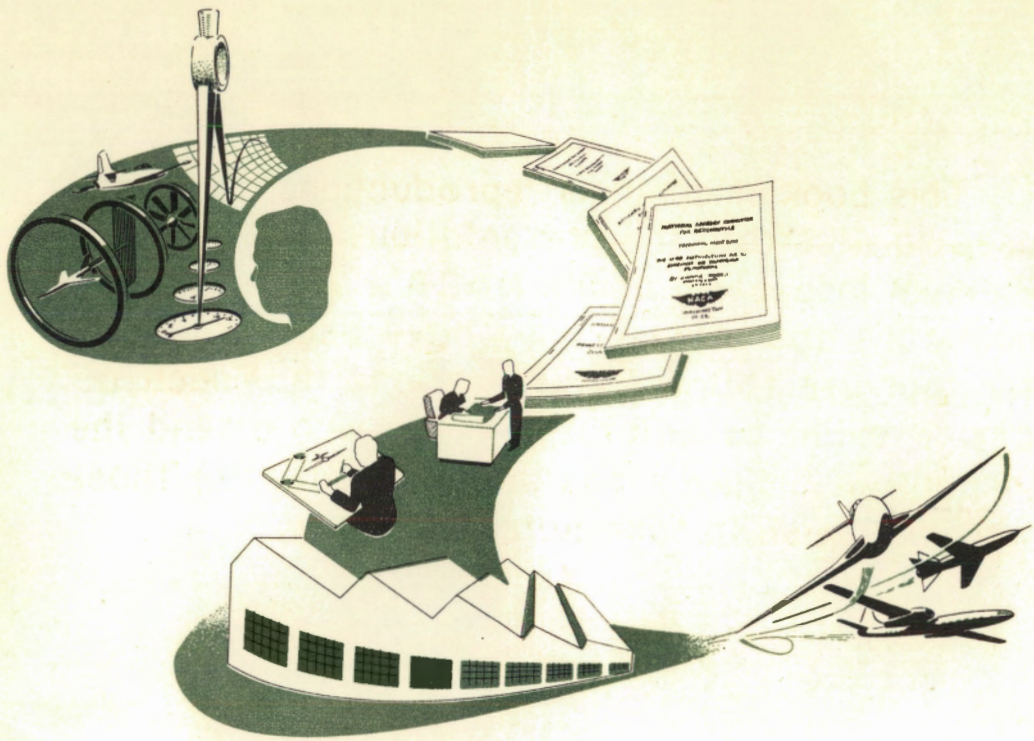
**AMES  
AERONAUTICAL  
LABORATORY**

**1952**

**INSPECTION**

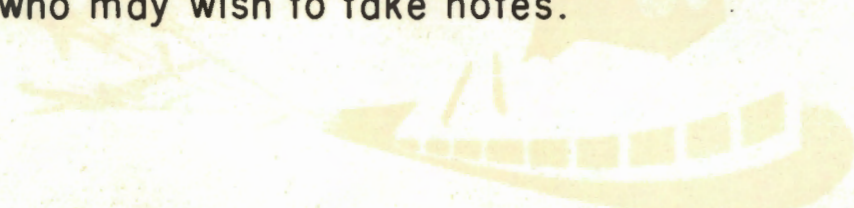


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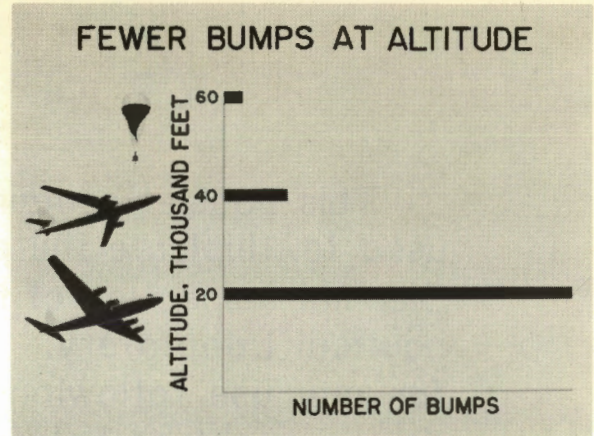
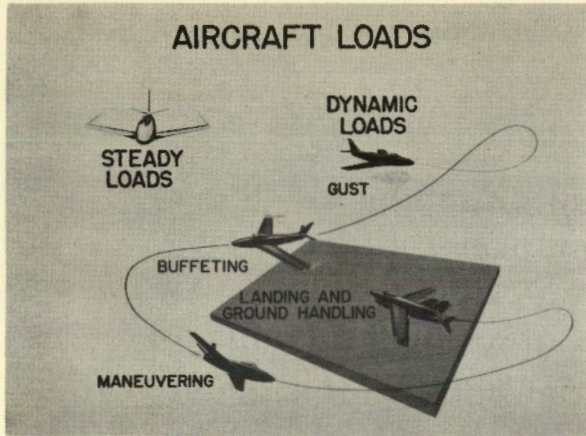


LOADS

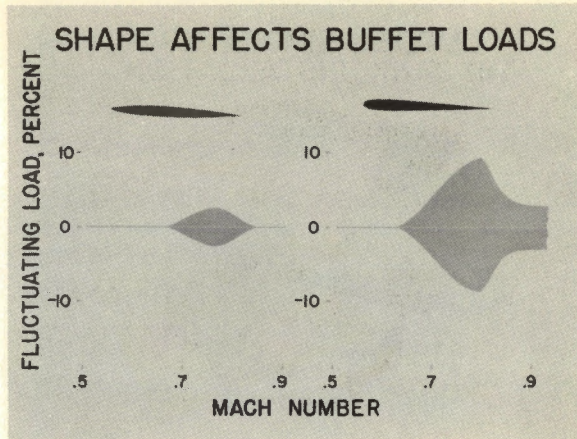
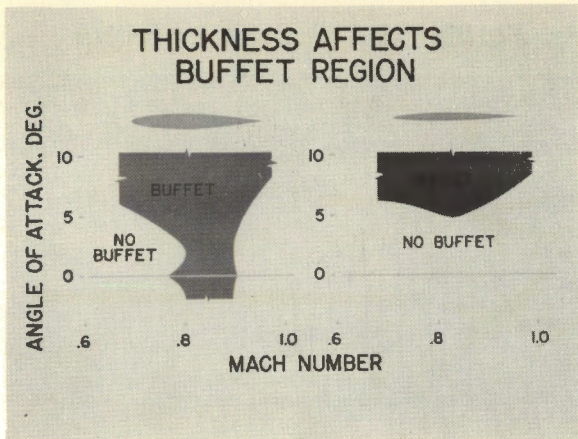
This booklet contains reproductions of charts used to illustrate the presentations at the 1952 Biennial Inspection of the NACA's Ames Aeronautical Laboratory. They have been prepared for your use following suggestions that such a device might be helpful to those who attend the Inspection. Space has been provided for those who may wish to take notes.



# LOADS

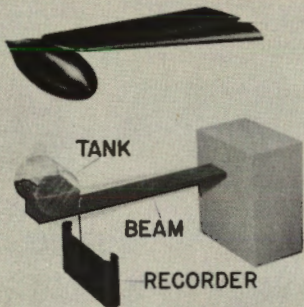


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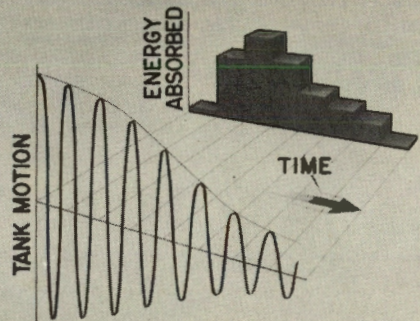


NOTES

# MODEL SIMULATES TIP TANK INSTALLATION



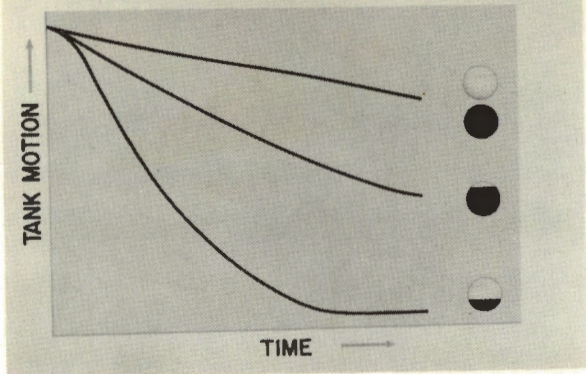
# FLUID DAMPS OSCILLATIONS



NOTES

LANDING

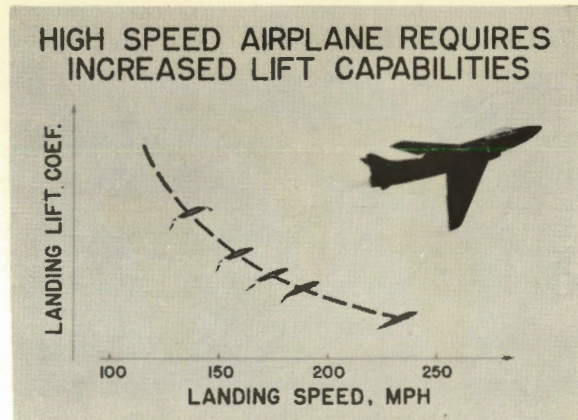
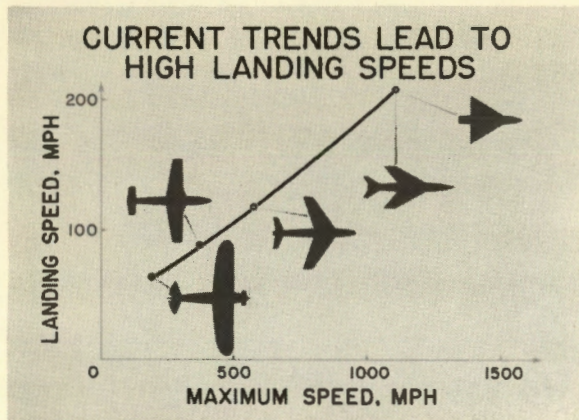
# TANK FULLNESS AFFECTS DAMPING



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# LANDING

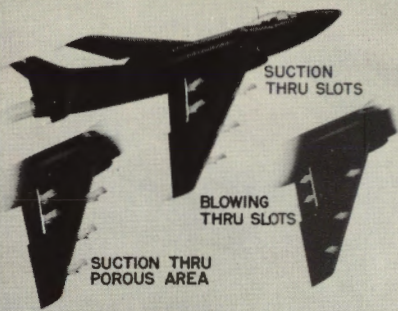


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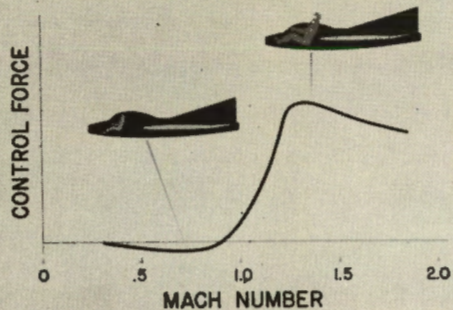
# BOUNDARY LAYER CONTROL APPLICATIONS



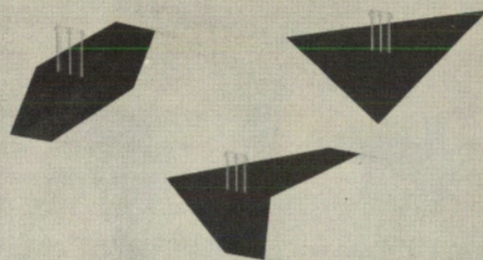
NOTES

# STATIC STABILITY AND CONTROL

CONTROL FORCE INCREASES AT  
TRANSONIC SPEEDS

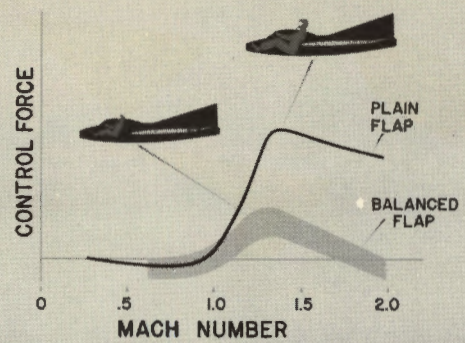


PLAN FORM AFFECTS  
CENTER-OF-LIFT TRAVEL

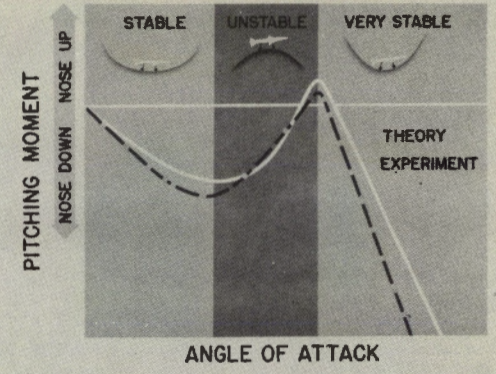


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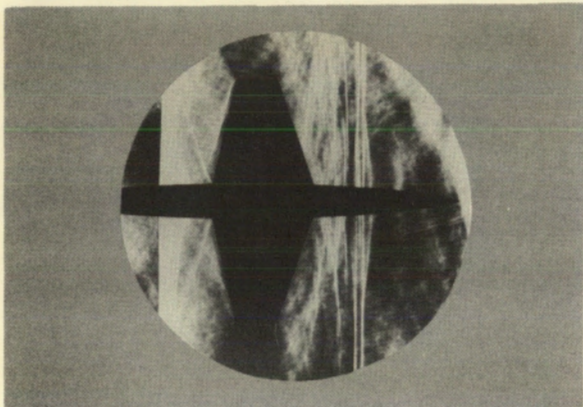
### BALANCE REDUCES CONTROL FORCE



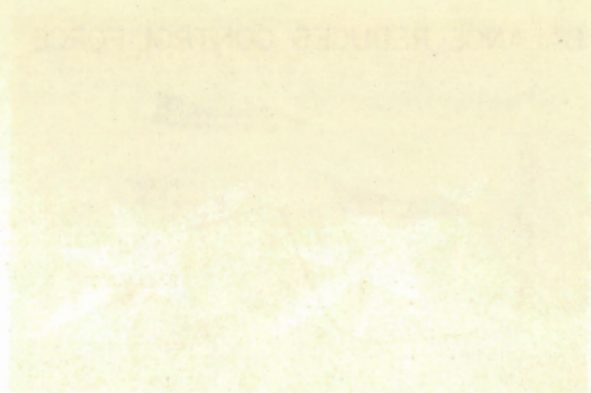
### MISSILE STABILITY CALCULATED



NOTES

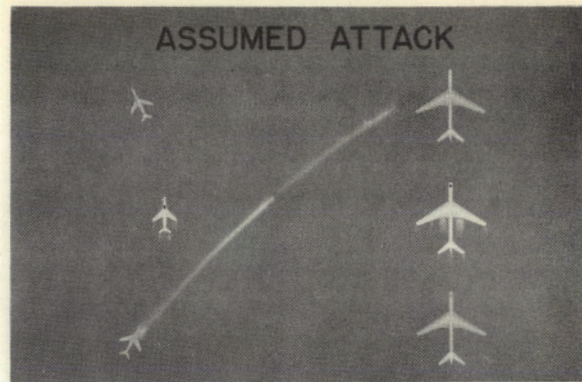
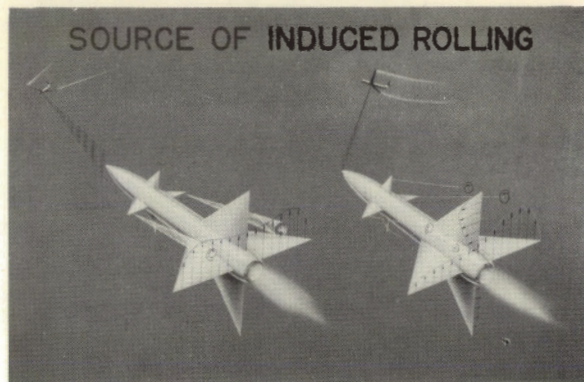


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# MISSILE DYNAMICS



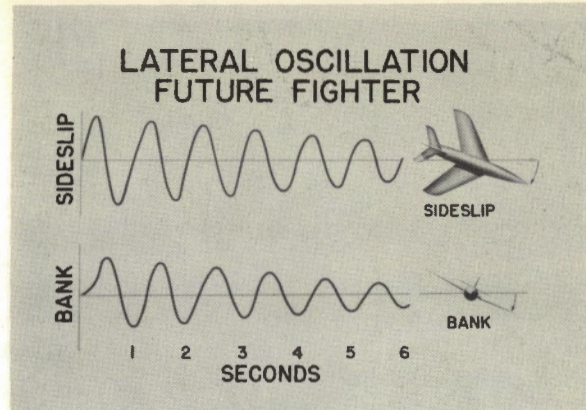
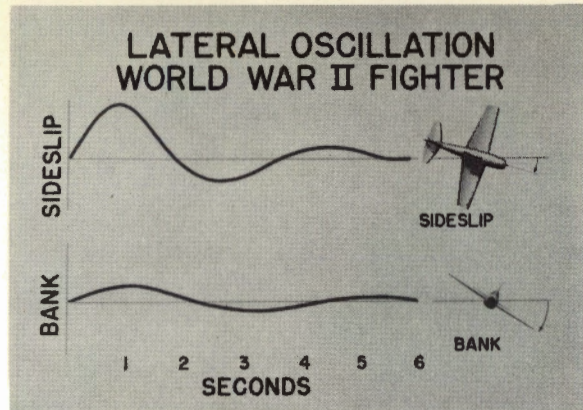
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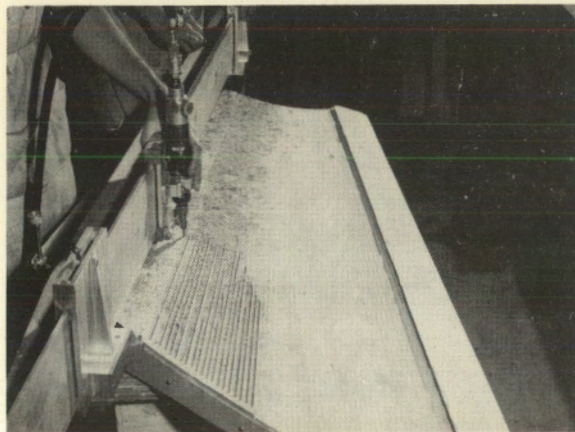
NOTES

# AUTOMATIC STABILITY AND CONTROL



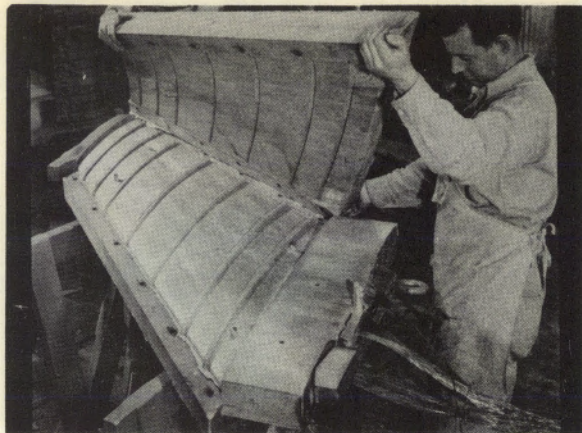
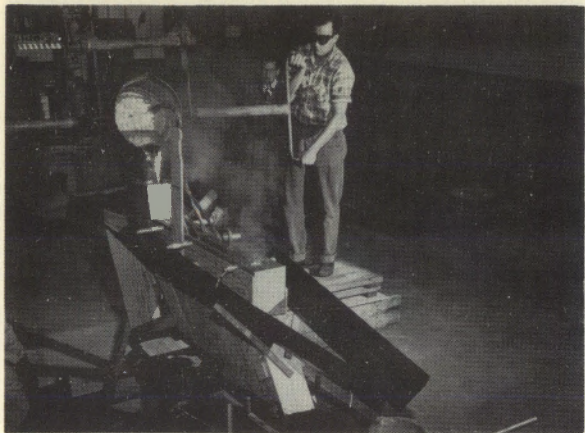
NOTES

# MODEL CONSTRUCTION

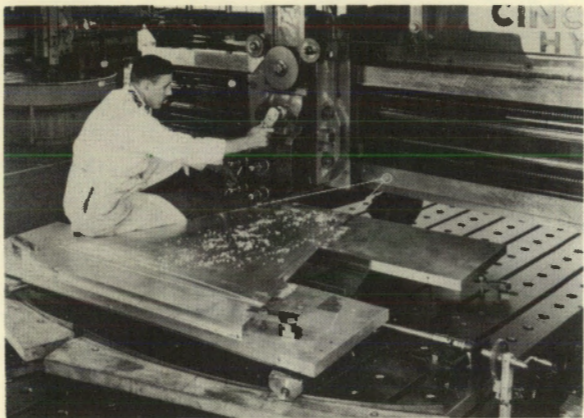


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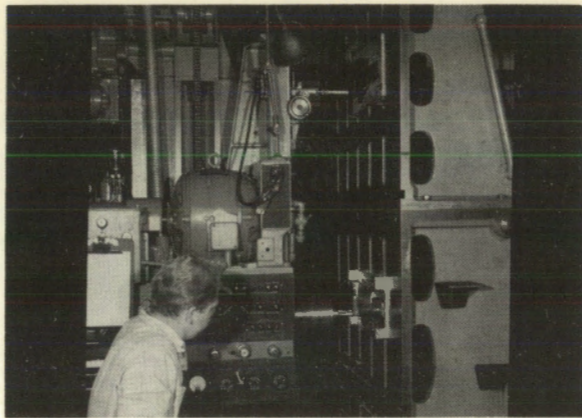




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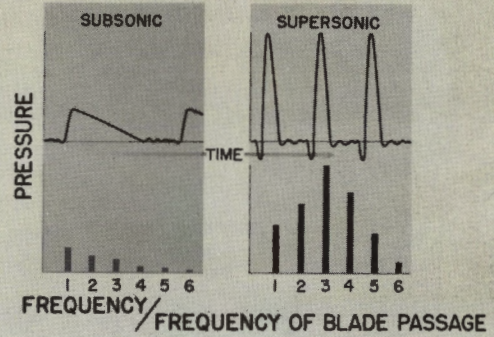


# PROPELLERS AND HELICOPTERS

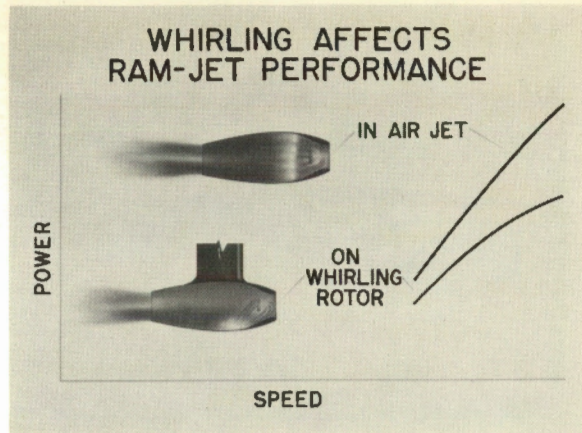
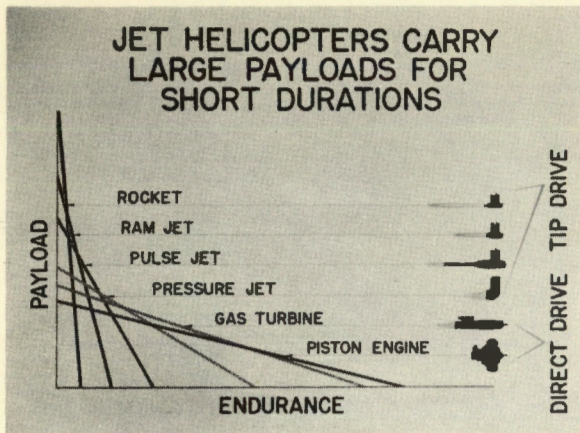
PROPELLER SLIPSTREAM



PROPELLERS INDUCE PRESSURE PULSATIONS

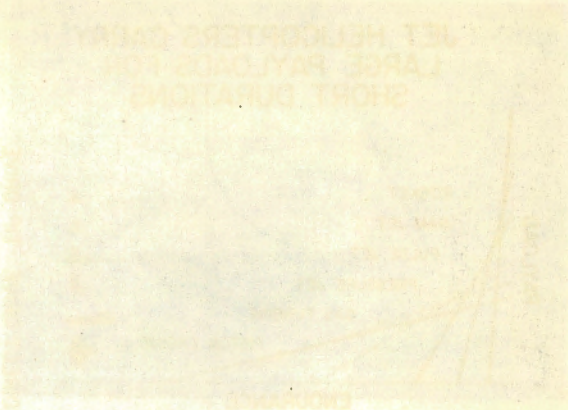
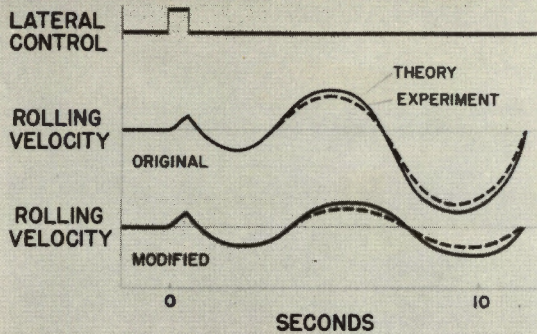


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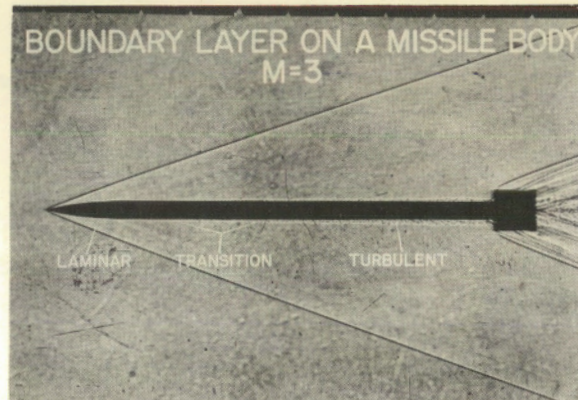
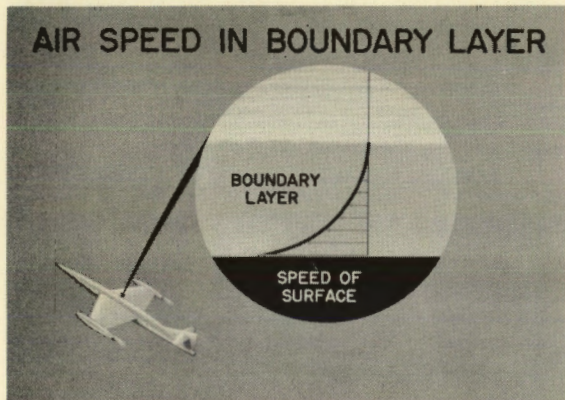
### LATERAL OSCILLATIONS REDUCED



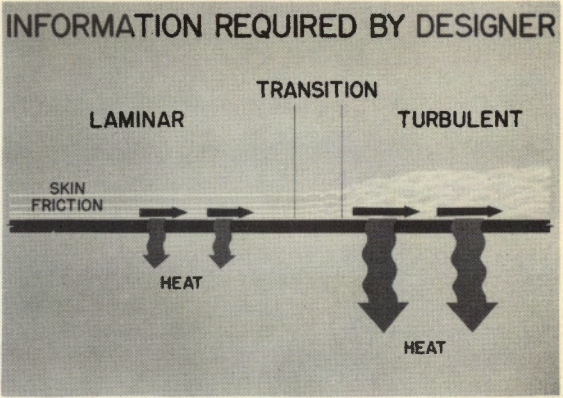
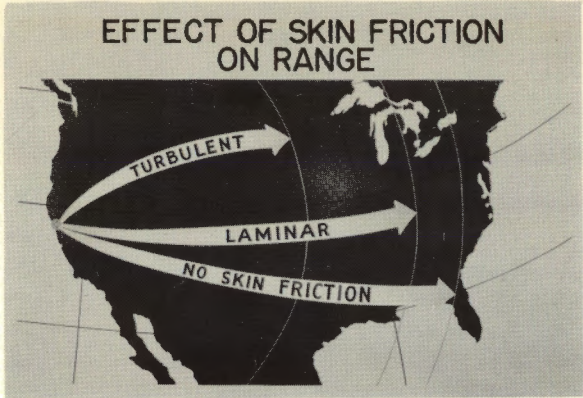
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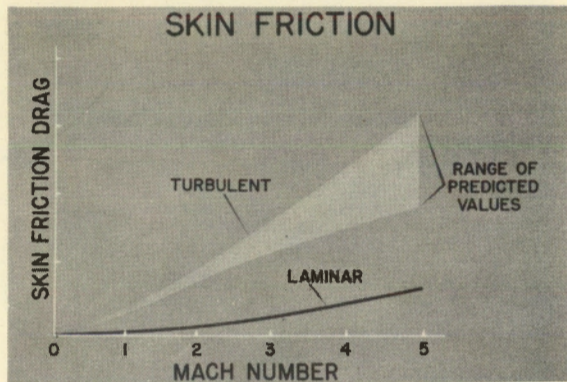
# AERODYNAMIC FRICTION AND HEATING



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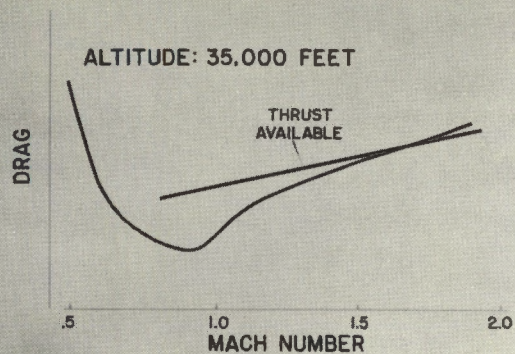


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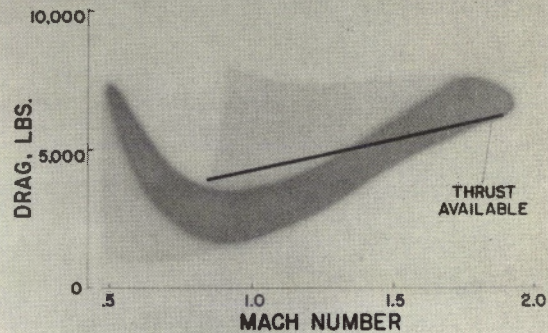


# HIGH SPEED AND RANGE

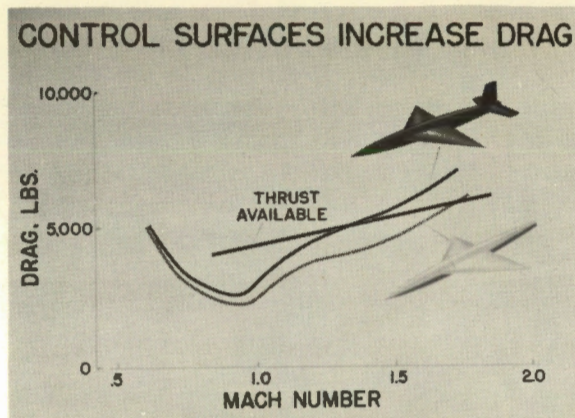
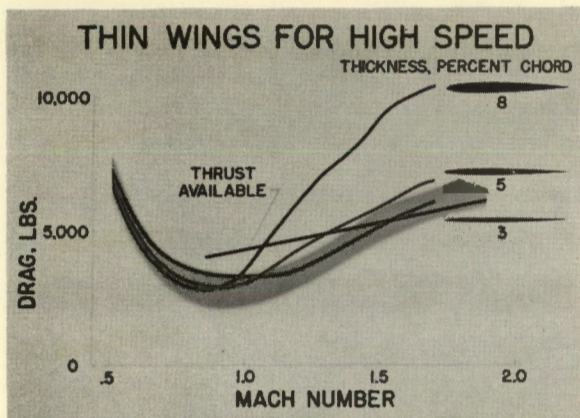
## DRAG OF SUPERSONIC AIRPLANE



## PLAN FORM AFFECTS DRAG

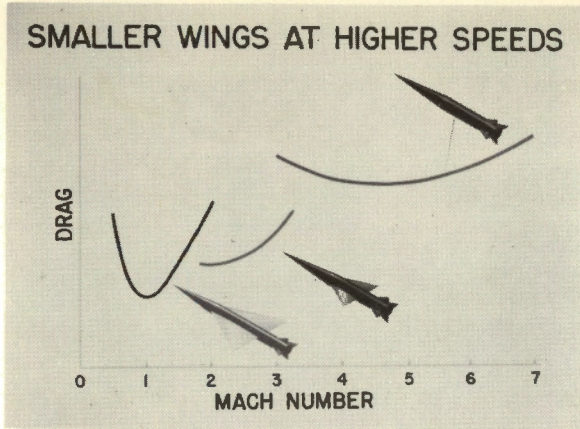


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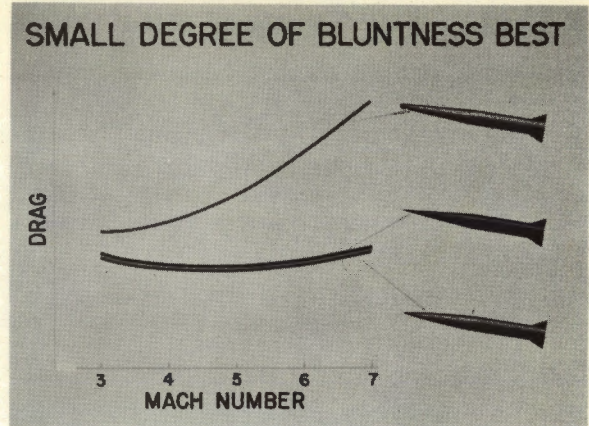


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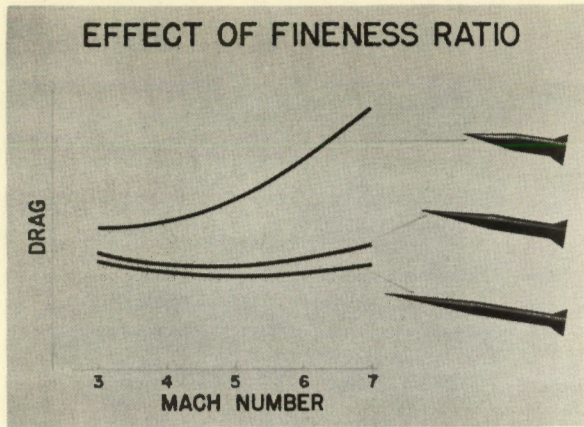
### SMALLER WINGS AT HIGHER SPEEDS



### SMALL DEGREE OF BLUNTNESS BEST

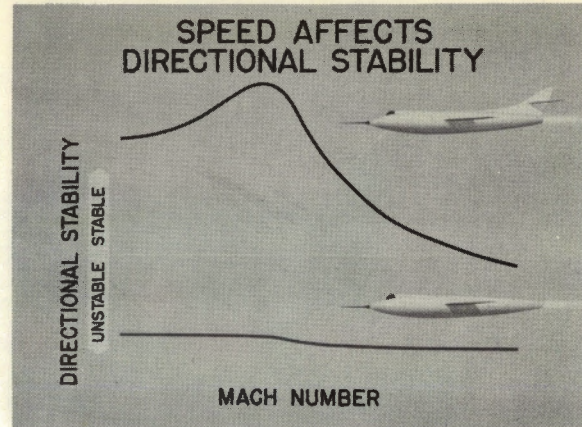
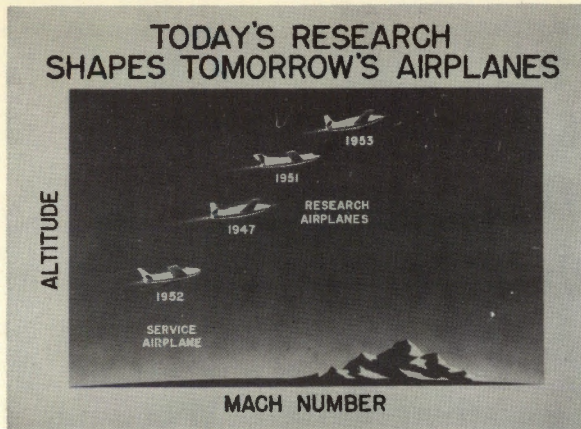


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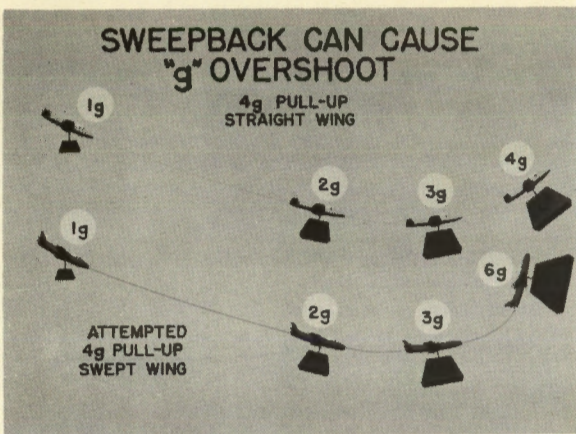


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# RESEARCH AIRPLANES



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