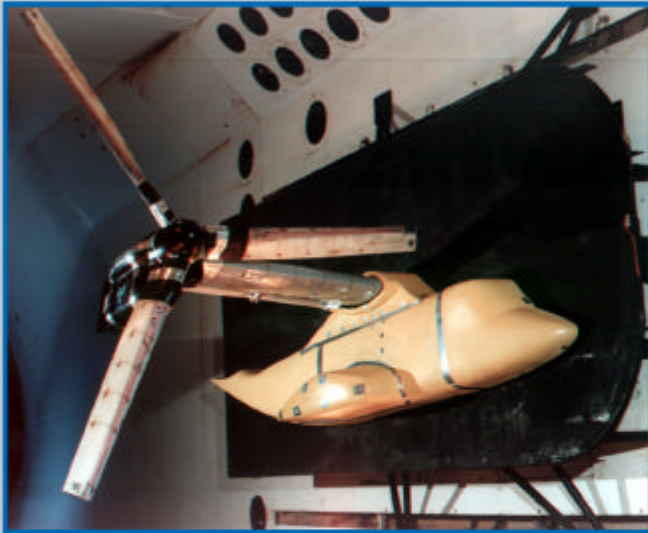
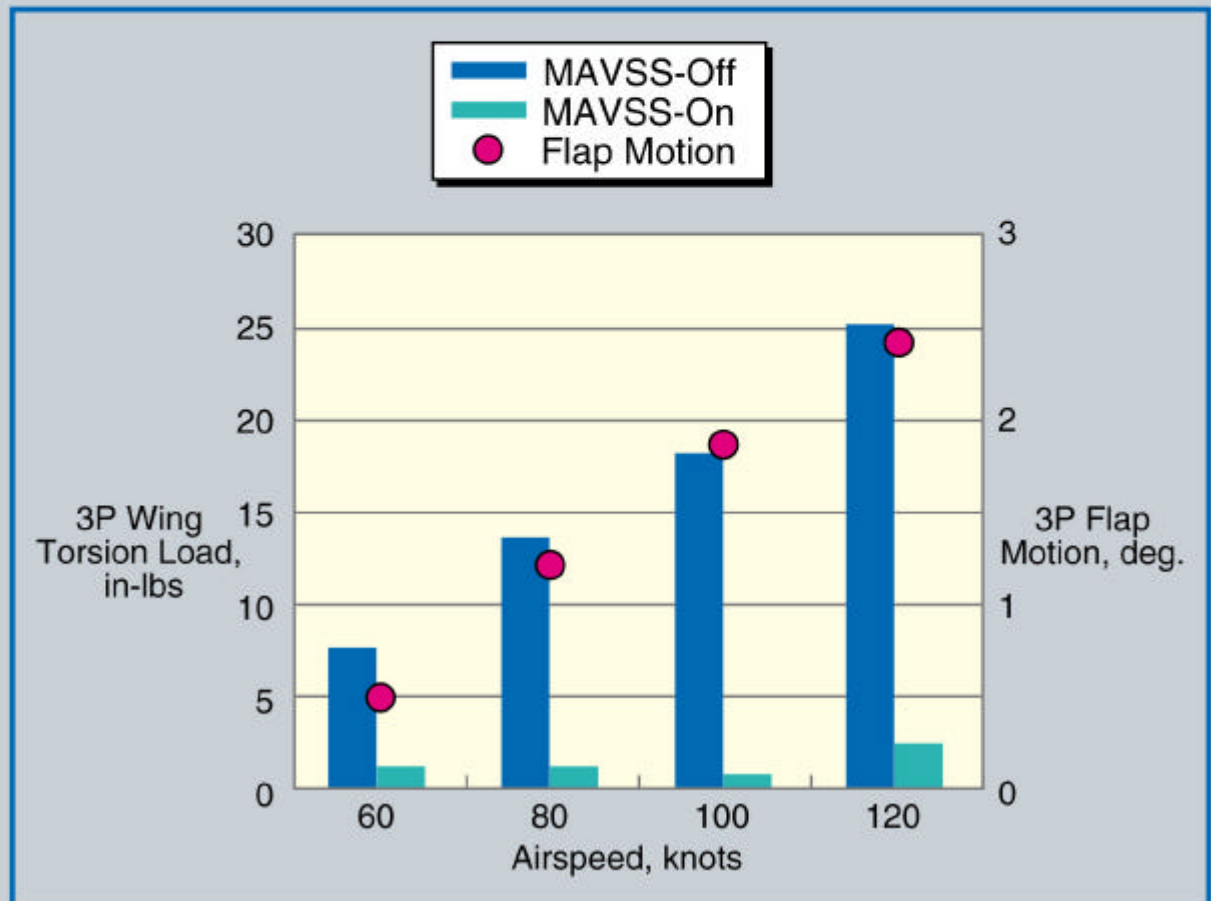


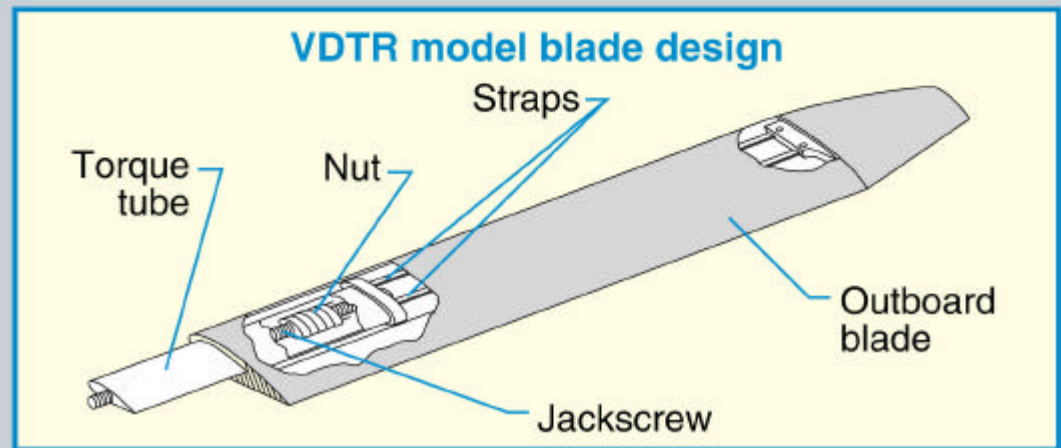
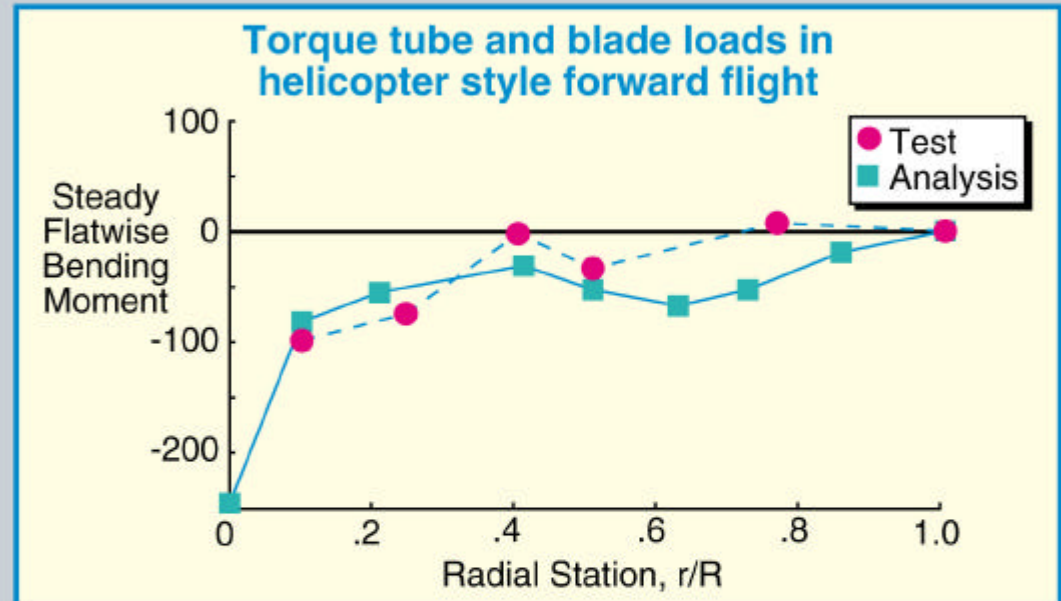
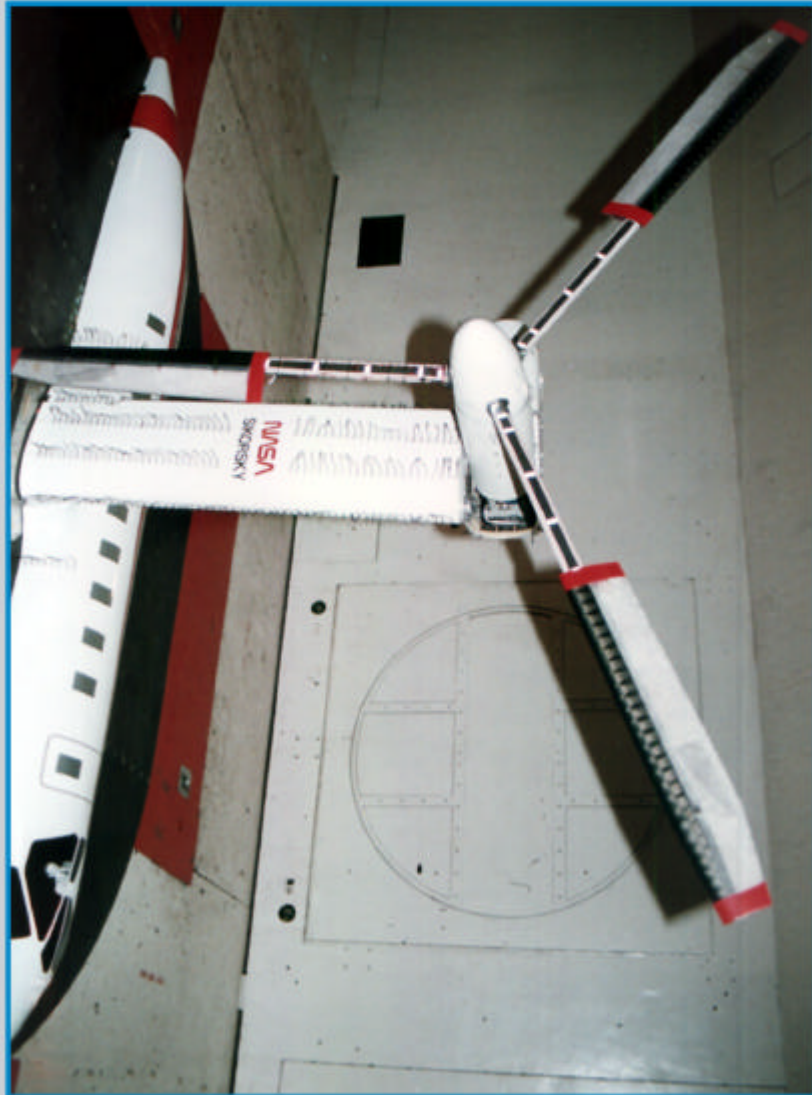
# ACTIVE-FLAPERON TEST DEMONSTRATES SIGNIFICANT REDUCTIONS IN TILTROTOR WING VIBRATORY LOADS



Effect of the Bell Multipoint Active Vibration Suppression System (MAVSS) on 3P Loads as a Function of Airspeed at 950 Rpm

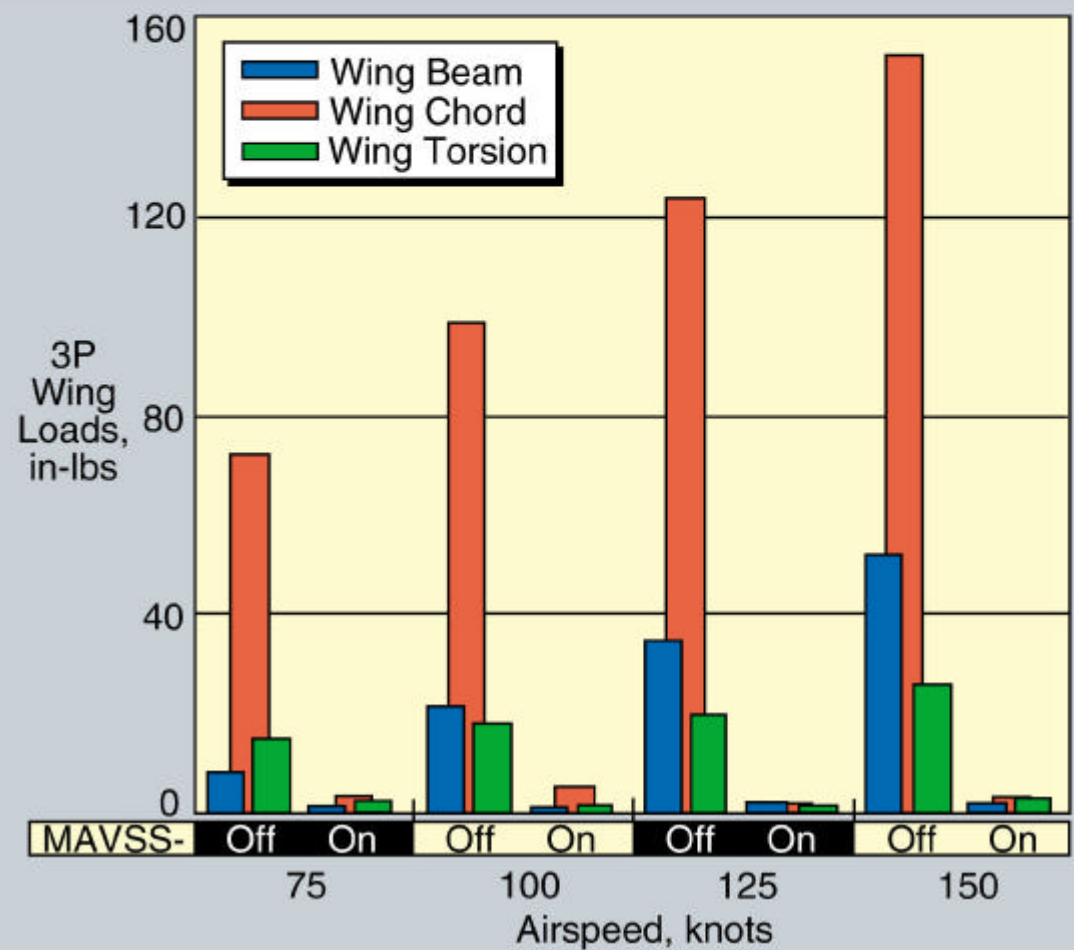
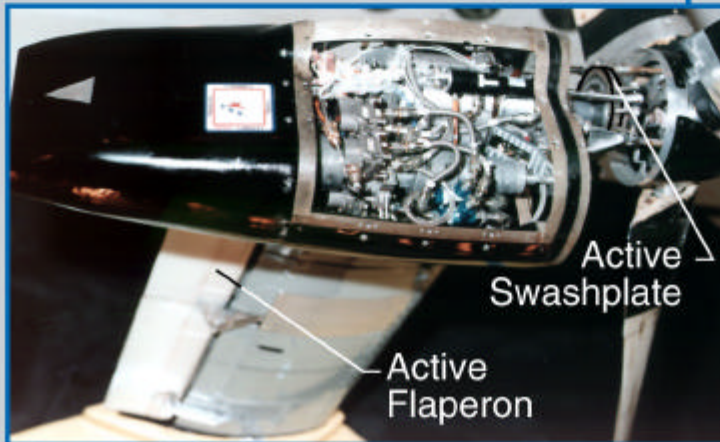
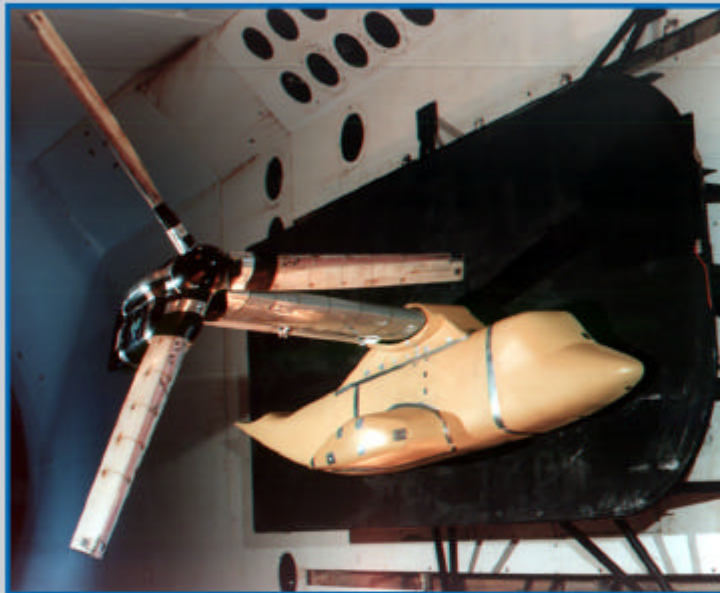


# UMARC FINITE ELEMENT ANALYSIS ACCURATELY REPRESENTS VDTR MULTIPLE LOAD PATHS



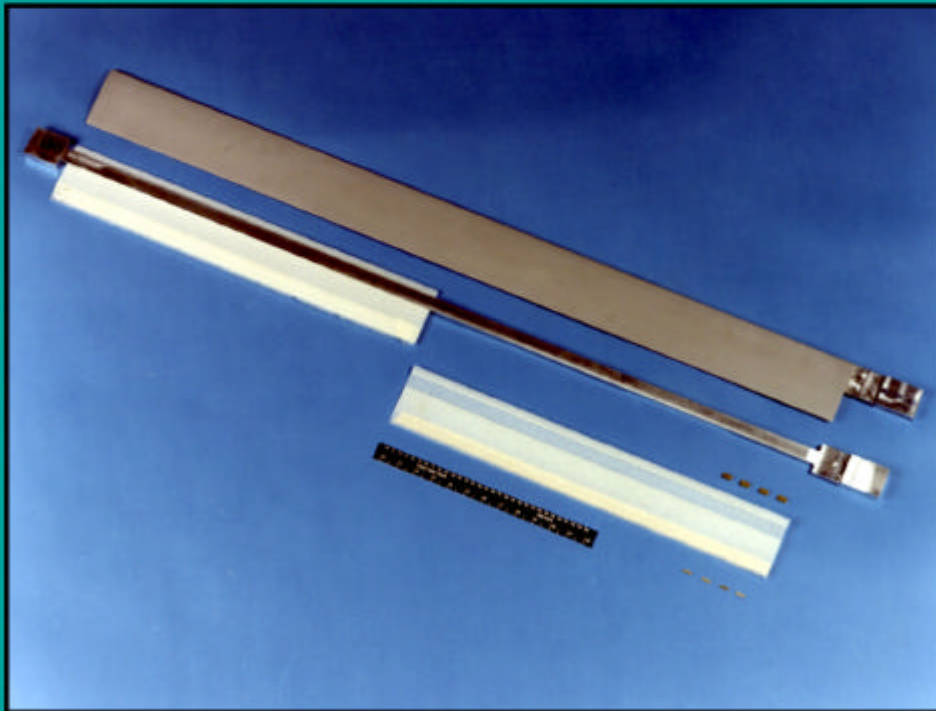
# ACTIVE-SWASHPLATE/FLAPERON TEST DEMONSTRATES SIGNIFICANT REDUCTIONS IN TILTROTOR WING VIBRATORY LOADS

Simultaneous Effect of the Bell Multipoint Active Vibration Suppression System (MAVSS) on 3P Loads as a Function of Airspeed at 742 Rpm

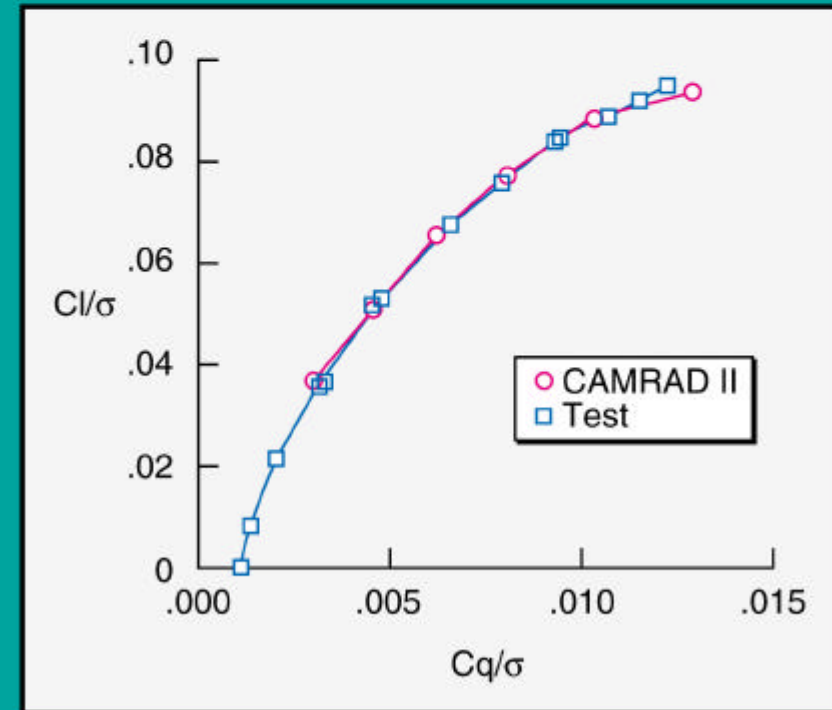


# ***BASIC RESEARCH ROTOR SUCCESSFULLY TESTED IN THE TDT***

Components of the Basic  
Research Rotor

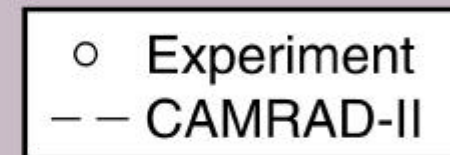
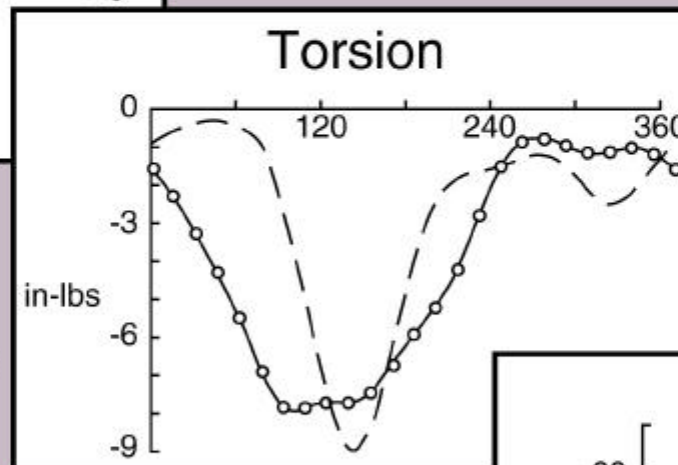
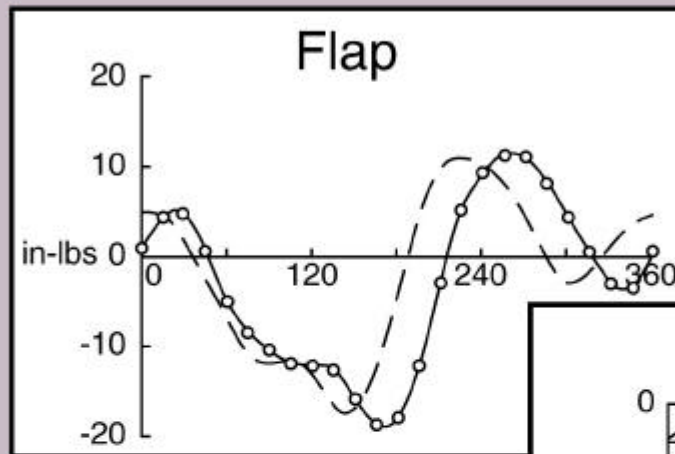


CAMRAD II Predictions  
vs Test Data

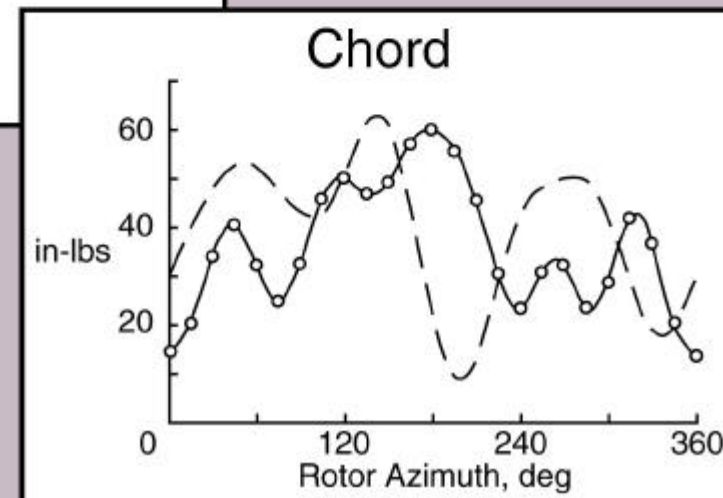
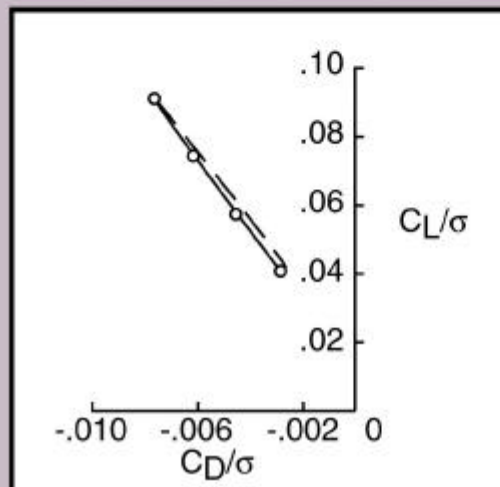


# PRELIMINARY VERIFICATION OF ANALYSIS CAPABILITY FOR USE IN THE DESIGN OF LOW VIBRATION HELICOPTER ROTORS

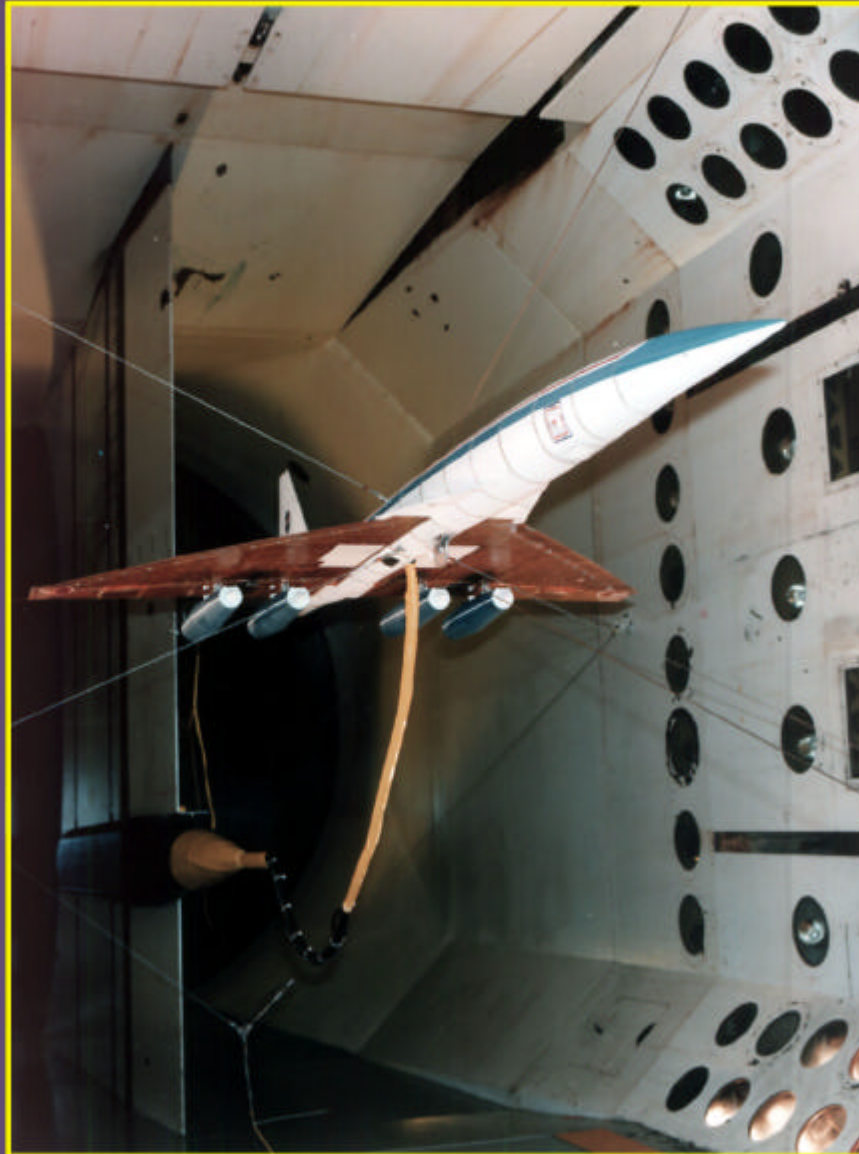
Blade Bending Moments  
( $r/R = 0.37$ )



Rotor Performance



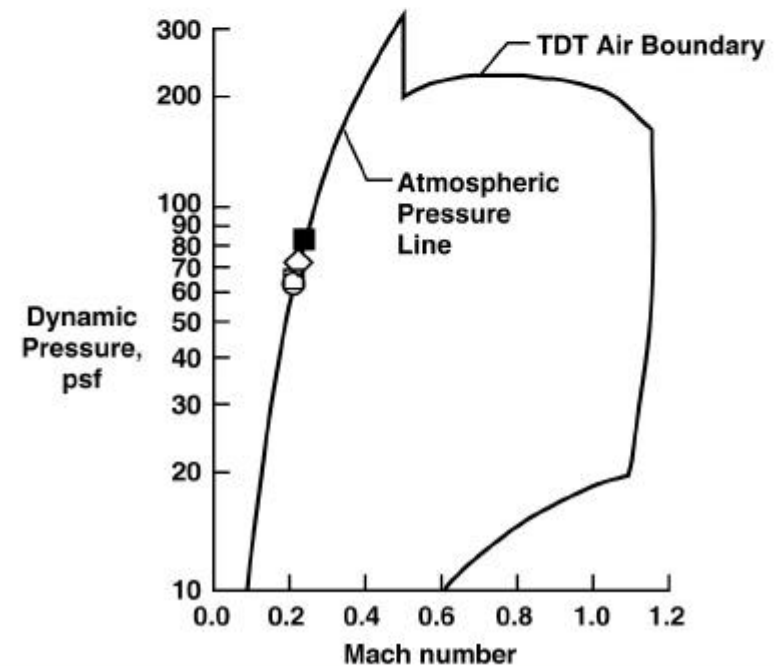
# HSR ACTIVE CONTROLS TESTBED SUCCESSFULLY TESTED ON CABLE-MOUNT SYSTEM IN TDT



## Configurations

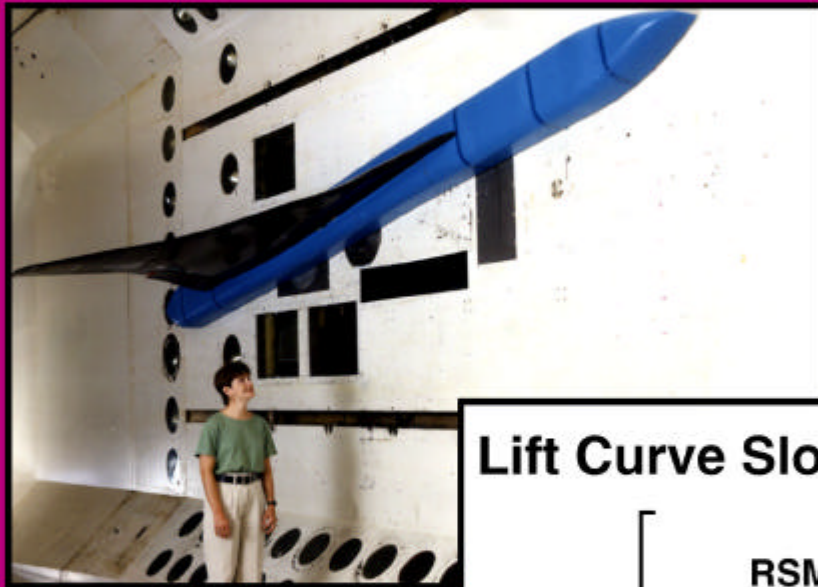
- Forward cg, stiff nacelle springs
- Mid cg, stiff nacelle springs
- Mid cg, soft nacelle springs
- ◇ Aft cg, stiff nacelle springs

## Flutter Results



# HSR AEROELASTICITY PROGRAM BASELINE SEMI-SPAN MODEL TESTING COMPLETED IN THE TRANSONIC DYNAMICS TUNNEL

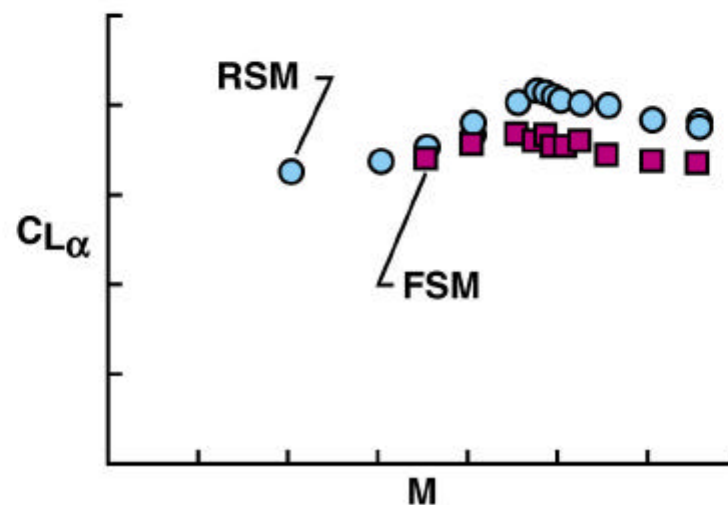
Rigid Semi-Span Model (RSM)



Flexible Semi-Span Model (FSM)



Lift Curve Slope vs. Mach Number



# EFFECTS OF ANGLE-OF-ATTACK ON THE STABILITY BOUNDARY FOR AN HSR RIGID SEMISPAN MODEL MEASURED IN THE TDT

