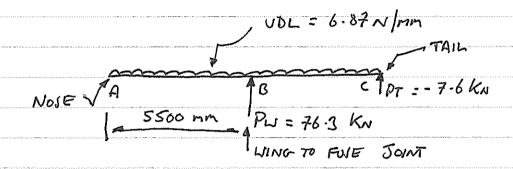
CALCULATION OF SHEARING FORCE & BENDING MOMENT MAXIMUMS FUR G280 BWINESS JET EXAMPLE

CONSIDER FUSERAGE AS A BEAM VITH A UNIFORMLY
DISTRIBUTED LOAD OF 6.87 N/mm

WING TO FUSELACE JOIN IS AT POINT SSOOMA AFT FROM THE NOSE



SMEAN FONCE AT POINT B = SUMMATION OF ALL FONCES
FORWARD OF POINT B

= UDL x LENGTH = 6.87 x 5 500 (KN x MM) = 37.8 KN

BENDING MOMENT AT POINT B = SUMMATION OF ALL MOMENTS

ACTING FORWARD OF POINT B

= MONEM DUE TO UDL

= (TOTAL FONCE) × (DISTANCE TO CENTRE)

OF ACTION OF FONCE

= (6.87 × SSOO) × (SSOO/2)

= 37.785 KN × 2750 mn

= 103.9 × 106 KN mm

= 103.9 KN m