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DESIGN AND ANALYSIS TOOL FOR EXTERNAL-COMPRESSION SUPERSONIC INLETS



Design and Analysis Tool for External-Compression Supersonic Inlets

NASA Technical Reports Server (NTRS), John W. Slater BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 32 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.A computational tool named SUPIN has been developed to design and analyze external-compression supersonic inlets for aircraft at cruise speeds from Mach 1. 6 to 2. 0. The inlet types available include the axisymmetric outward-turning, two-dimensional single-duct, two-dimensional bifurcated-duct, and streamline-traced Busemann inlets. The aerodynamic performance is characterized by the flow rates, total pressure recovery, and drag. The inlet flowfield is...

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