H Robert Welge Publications

Publications (titles of articles, technical papers and books—where published and presented)

1) "SCAMP: Supersonic Passenger Transport Transonic Acceleration Flight Profiles with Considerations of Focused Sonic Boom." (Co-Author) AIAA Paper 2013-1065, January 2013

2) "SCAMP: Superboom Caustic Analysis and Measurement Project Overview". (Co-Author) AIAA-2013-0930, January 2013

3) "N+3 Advanced Concept Studies for Supersonic Commercial Transport Aircraft Entering Service in the 2030-2035 Period". (co-Author) NASA/CR–2011-217084 April 2011

4) "Supersonic Vehicle Systems for the 2020 to 2035 Timeframe", (Co-Author) AIAA Paper 2010-4930, Presented at the 28th AIAA Applied Aerodynamic Conference, Chicago, Illinois, June 2010

5) N+2 Supersonic Concept Development and Systems Integration. (Co-Author) NASA/CR-2010-216842 August 2010.

6) Regional Jet Operational Improvements Resulting from Short Field Performance and Design", (Co-author) AIAA Paper 2003-2891, To be presented at the AIAA/ICAS International Air and Space Symposium and Exposition: the Next 100 Years, Dayton OH, July 2003.

7) "2nd Generation RLV Risk Reduction Definition Program", (Co-Author) Final Report NASA Contract No. NAS8-00163, May 2001.

8) "High Speed Civil Transport (HSCT) Level 2 Final Report Summary--Technology Integration Task", (Co-Author) NASA Contract Deliverable Report #TI4D1204, September 1999.

9) "The Status of the Industry/NASA HSCT Program in the United States", (Co-Author) Presented at SAE Aero Tech 93, September 1993.

10) "Civil Aircraft Challenges in Engine/Airframe Integration", (Co-Author) ASME 92-GT-45, June 1992.

11) "High Speed Research System Study Flight Research Requirements", McDonnell Douglas Aircraft Company, NASA CRAD-9103-TR-8509, August 1992.

12) "Engineering Status of the McDonnell Douglas HSCT Program", (Co-Author) SAE Paper 912215, September 1991.

13) "HSCT Aerodynamic Technology for Enhanced Economic Viability", (Co-Author) SAE Paper 901924, October 1990.

14) "Computational Fluid Dynamic Design Applications at Supersonic/Hypersonic Speeds", Applied Computational Aerodynamics, Edited by P. A. Henne, Progress in Astronautics and Aeronautics, Vol 125, AIAA, Washington D. C., 1990, pp 817-838.

15) "Aerodynamic Technology Opportunities for a High Speed Civil Transport", SAE Technical Paper Series 881354, October 1988.

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17) "Ultra High Bypass Engine Applications to Commercial and Military Aircraft", (Co-Author) SAE Paper 861720, October 1986.

18) Low Speed Aerodynamic Test of an Axisymmetric Supersonic Inlet with a Variable Cowl Slot", (Co-Author) AIAA Paper 85-1210 (Also NASA TM 87039), July 1985.

19) "Technology Study for Advanced Supersonic Cruise Vehicles—Inlet Technology", (Co-Author) NASA CR 172602, February 1985.

20) "Aerodynamic Test Results for a Wing-Mounted Turboprop Propulsion Installation", Douglas Paper 7459, August 1984.

21) Analytical and Experimental Study of a Complex 3-D Inlet for Turboprop Applications", (Co-Author) AIAA Paper 84-2203, August 1984.

22) "Propfan Experimental Data Analysis", (Co-Author) NASA CR 166582, August 1984.

23) "Inlet Design Studies for a Mach 2.2 Advanced Supersonic Cruise Vehicle", (Co-Author) Journal of Aircraft, July 1982.

24) "Aerodynamic Development of Laminar Flow Control on Swept Wing Using Distributed Suction Through Porous Surfaces", (Co-Author) AIAA Paper 82-512, 1982

25) "Analysis of Mach 0.8 Turboprop Slipstream Wing/Nacelle Interactions", (Co-Author) NASA CR 166214, August 1981.

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35) "Powered Engine Simulator Procedures and Experience for the DC-10 Wing Engine", (Co-Author) Journal of Aircraft, July 1971.