Public Domain Computer Programs for the Aeronautical Engineer

CONTENTS OF CURRENT VERSION (Last updated 1 January 2009)

WORKS IN PROGRESS (now on CD-ROM)

1. ABLATE - Analytical comparisons of ablative nozzle heat protestion materials.
2. ANDUCT - Calculate velocities in an asymmetric annular duct using the velocity gradient method
3. AOFA -Three-dimensional supersonic flow around a body of revolution at angle of attack
4. ARIES Aircraft roll-out iterative energy simulation program for brake performance during rollout.
5. CAS2D - Non-rotating blade-to blade, steady, potential transonic cascade flow analysis code
6. CELEST -Transformation of coordinates in Celestial Coordinates
7. COLDARC - Dissociated air flow effects during plasma arc testing
8. COREL - Conical Relaxation for supersonic wing design and analysis
9. DIVERGE - Aeroelastic divergence characteristics of unguided, slender body, multi-stage launch vehicles
10. ELASTIC - Static aeroelasticity program from U. Kansas
11. EXHAUST - Analysis of three-dimensional supersonic nozzle exhaust flow fields
12. FSD - Flexible spacecraft dynamics
13. GENOPTICS - A general optical systems evaluation program
14. IPEG - Improved price estimation guidelines to estimate the price of a manufactured product.
15. LONGLIB - a graphics library for vector plotting to CRT's and laser printers.
16. MISER2 - Mistuning effects on turbofan cascades
17. MONITOR - Monte Carlo investigation of trajectory operations and requirements
18. NASTPLT - Nastran plotting post processor to translate NASTRAN generated plot files
19. NSEG - A segmented mission analysis program for low and high speed aircraft
20. OPTIM - Determine a vertical profile which minimizes aircraft fuel burn or direct operating cost
21. PILOT - Parameterized investigation of launch opportunities and trajectories
22. RBLADE - Design of two-dimensional supersonic turbine rotor blades with boundary layer correction
23. RELAY - Fast Mars relay communication link analysis
24. ROTOR - Aeroelastic analysis for rotorcraft in flight or in a wind tunnel
25. SHIFARC - Super/Hypersonic inviscid flow around real configurations
26. SNEAK - Analysis of aircraft wiring circuits
27. SSSP - Space Shuttle Synthesis Program
28. TANDEM - Velocities and streamlines on a blade-to-blade stream surface of a tandem blade turbomachine
29. THERM1D - 1-D numerical analysis of the transient thermal response of multilayer insulative systems
30. TOL - Takeoff and landing performance capabilities of transport category aircraft
31. TOMARS - A rapid, flexible, preliminary Earth-Mars mission-analysis computer program
32. TPS - Thermal Protection System multidimensional heat conduction program
33. VASCOMP - V/STOL aircraft sizing and performance (VASCOMP II)

Public Domain Computer Programs for the Aeronautical Engineer is published on a CD-ROM including full public domain source code for all programs. Order your copy ($295.00) directly from http://www.pdas.com/store/ or go to the web site www.pdas.com for other options.
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