26/20/61
Alumni Association
Alumni
Carl L. Cowell Papers, 1962-76

Box 1:

Math 182 Theory Notebook by C.L. Colwell, April-May 1962
Chrysler Space Division, Style Manual and Office Practices, 1963
"A Derivation of the Three Dimensional...Navigation..." for Marshall Space Flight Center, Huntsville, AL, by Carl L. Colwell, 30 August 1963.
Project Apollo Coordinate System Standards, June 1965
CT0041 Program Class Schedule, June 1966
Flight Mechanics Notes, 1967
"AS-268 Engine Out Rigid Body Controllability Analysis" for Saturn 1B Program by C.L. Colwell, 31 March 1967.
Engineering Sciences 171/271, 1967-68
Flight Mechanics Institute, ca. 1968
Saturn IB Flight Manual, April 1968
Flight Analysis Group Computer Requirements, 13 March 1969
Apollo/Soyuz Test Project Proposal
Skylab/Saturn IB Flight Controllability, 1976
Title Pages of Discarded Manuals, Publications, Articles

Chrysler Space Division Technical Reports:

57 CCSD Operational Trajectory Analyses System, 1 November 1974
62 ASTP (SA-210) Launch Digital Computer Software Design Assurance..., 10 February 1975
63 ASTP (SA-210) Launch Vehicle Guidance Design Assurance Analysis, 1 April 1975

Box 2:

Chrysler Space Division Technical Reports:

1 AS-205/CSM-101 Launch Vehicle Dynamics Analyses, 3 September 1968
2 Saturn AS-205/CSM 101 Postflight Trajectory, December 1968
3 Saturn IB Boost Flight Load Indicators Sensitivity Comparison Analyses, January, 1969
4 S-IVB Hybrid Computer Orbital Flight Simulation, 10 January 1969
5 APS Orbital Propellant Consumption, March 1969
6 Quarterly Status Report, Flight Analyses Automation, 31 March 1969
7 Saturn IB Launch Vehicle Thrust Vector Control System Malfunction Mode Description, April 1969
8 A Simplified Technique for Estimating Launch Vehicle Inflight Wind Limits, May 1969
9 Quarterly Status Report, Flight Analyses Automation, 30 September 1969
10 Aerodynamic Effects on Saturn IB Liftoff Motion, January 1970
11 AP-2 Launch Vehicle Baseline Reference Trajectory for a 35-Degree Inclined Orbit, part I,

16 February 1970
12 Part II
13 AAP-2 Launch Vehicle Dispersion Analysis, 3D vs. 6D Comparison, May 1970
14 Quarterly Status Report, Flight Analyses Automation, 30 June 1970
15 Flight Mechanics Analysis of Skylab-2/Saturn IB Inertial Platform Accelerometer Failures, July 1970
16 An Examination of Alternate Backup Guidance Schemes for Saturn IB Skylab Vehicles, August 1970
17 Skylab-2/Saturn IB Performance Effects..., October 1970
18 H-1 Engine Failure Effects on Saturn IB Launch Vehicle Baseline..., October 1970
19 SL-2 Saturn IB Range Safety Trajectories for Maximum and Minimum IIP Range and Composite FPR, December 1970
20 Optimization of Shift Time for S-IVB Two-Position MR Valve..., December 1970
21 Saturn IB Range Safety Comparison Analysis, March 1971
22 Saturn IB/Skylab-2 Vehicle Flight Mechanical Analysis of Single Engine Out Malfunction, April 1971
23 Analysis of Backup Methods for Saturn IB/Skylab-2 Inertial Accelerometer Failures, April 1971
24 Saturn IB Skylab A Launch Vehicle Dynamics Analyses, November 1971
25 Same as 23, January 1972
26 SL-2 (SA-206) Guidance Design Assurance Preflight Analysis, March 1972
27 A Review of the SL-2 (SA-206) LVDC EDD, June 1972
28 Analysis of the Skylab Accelerometer Backup Scheme Improvement for the SL-3 Launch Vehicle, June 1972
29 Launch Vehicle Digital Computer Software Design Assurance, November 1972
30 Saturn IB SL-2 (SA-206) Launch Vehicle Range Safety Analysis, December 1972
31 SL-2 (SA-206) Preflight Guidance Design Assurance, January 1973
32 SL-2 (SA-206) Launch Vehicle Digital Computer Software Design Assurance, January 1973
33 Launch Vehicle Digital Computer Software Design Assusrance, April 1973
34 SL-2 (SA-206) Postflight Guidance Design Assurance, June 1973
35 SL-3A (SA-207A) Preflight Guidance Design Assurance, June 1973
36 SL-4 (SA-208) Launch Vehicle Digital Computer Software Design Assurance, July 1973
37 Saturn IB SL-4 (SA-208) Launch Vehicle Range Safety Analysis, August 1973
38 SL-3 (SA-207) Postflight Guidance Design Assurance, August 1973
39 SL-4 (SA-208) Preflight Guidance Design Assurance, September 1973
40 SL-R (SA-209) Launch Vehicle Digital Computer Software Design Assurance, September 1973
41 SL-R (SA-209) Preflight Guidance Design Assurance, November 1973
42 SL-R (SA-209) Launch Vehicle Digital Computer Software Design Assurance, Supplement No. 1, November 1973
43 SL-4 (SA-208) Postflight Guidance Design Assurance, December 1973
44 SL-4 (SA-208) Launch Vehicle Postflight Trajectory, Part IV, January 15, 1974

45 Same as 40, Supplement No. 2, January 1974
46 Same as 40, March 1974
47 ASTP (SA-210) Launch Vehicle Preliminary Operational Flight Trajectory, Part I: Guidance Presettings, 9 April, 1974
48 Same, Part II: Orbital Gimbal Angles, 24 April , 1974
49 Same, Part III: Final Documentation
50 Same; Trajectory Tracking Analysis, 23 May, 1974
51 ASTP (SA-210) Launch Vehicle Preliminary Dynamics Analyses, 15 July, 1974
52 ASTP (SA-210) Launch Vehicle Preliminary Operational Flight Trajectory Dispersion Analysis: Volume I, 15 July, 1974
53 ASTP (SA-210) Launch Vehicle Preliminary Guidance Design Assurance Analysis, 22 July, 1974
54 ASTP (SA-210) Launch Vehicle Preliminary Malfunction Flight Analysis, Part I: Malfunction Flight Performance, 30 July 1974
55 Saturn IB ASTP (SA-210) Launch Vehicle Preliminary Range Safety Analysis, 16 August 1974
56 ASTP (SA-210) Preliminary S-IVB Stage Disposal Analysis, 21 August 1974
57 lacking
58 ASTP (SA-210) Launch Vehicle Operational Flight Trajectory, Part I: Guidance Presettings, 10 December, 1974
59 Same as 54, Part II: Flight Limits and EDS, 10 December 1974
60 Same as 58, Part II: Orbital Gimbal Angles, 7 January 1975
61 Same, Part III: Final Documentation, 21 January 1975

Reports edited or written by C.L. Colwell: 1, 6, 9, 11, 21-23, 25-30, 32-43, 45-46, 49, 53, 55, 62.