Subject and Author Indexes of Technical Papers Published in the AIAA Journals, Progress in Astronautics and Aeronautics, and Astronautics & Aeronautics in 1974

Issue	Pages	Issue	Pages
January	1-128	July	881-1008
February	129-256	August	1009-1168
March	257-416	September	1169-1296
April	417-576	October	1297-1456
May	577-736	November	1457-1616
June	737-880	December	1617-1776
Journal of Spacecraft a	nd Rockets (Vol. 11, 1974)		
Issue	Pages	Issue	Pages
January	1-64	July	449-544
February	65-128	August	545-608
March	129-208	September	609-672
April	209-272	October	673-736
May	273-352	November	737-800
June	353-448	December	801-864
Journal of Aircraft (Vol	l. 11, 1974)		
Issue	Pages	Issue	Pages
January	1-64	July	369-432
February	65-128	August	433-496
March	129-192	September	497-592
April	193-256	October	593-656
May	257-304	November	657-720
June	305-368	December	721-784
Journal of Hydronautic	es (Vol. 8, 1974)		
	Pages	Issue	Pages
Issue			
Issue January	1-44	July	77-124

Progress in Astronautics and Aeronautics (Vols. 32-35, 1974)

Astronautics & Aeronautics (Vol. 12, 1974; Each issue starts with page 1; month and page are given for each entry in the indexes.)

SYN, SA, TN, EN, TC, and ERR indicate Synoptic, Survey Article, Technical Note, Engineering Note, Technical Comment, and Errata, respectively. All other items are regular full-length articles. The initials of the publication in which the paper was published are in parentheses at the end of each entry. In the Subject Index, papers are listed alphabetically by title, regardless of publication or category.

Table of Contents

	Page
List of Subject Index Topic Titles	2
Subject Index	4
Author Index	34

LIST OF SUBJECT INDEX TOPIC TITLES

AIRCRAFT TECHNOLOGY, CONVENTIONAL	Shock Waves and Detonations	
Aircraft Aerodynamics (Including Component	Subsonic and Transonic Flow	
Aerodynamics)4	Supersonic and Hypersonic Flow	
Aircraft Cabin Environment and Life Support	Viscous Nonboundary-Layer Flows	
Systems4	Wave Motion and Sloshing	. 10
Aircraft Configuration Design4	THE PROCESS IN A DRI MODY OF	
Aircraft Crew Training	INTERDISCIPLINARY TOPICS	
Aircraft Deceleration Systems4	Aerospace Management	16
Aircraft Economics (Including System Economics) 4	Aerospace Technology Utilization	16
Aircraft Fabrication5	Atmospheric, Space, and Oceanographic Sciences	17
Aircraft Flight Operations5	Checkout Systems	
Aircraft Fuels and Fuel Systems5	Computer Technology and Computer Simulation	•
Aircraft Gust Loading and Wind Shear5	Techniques	17
Aircraft Handling, Stability, and Control5	Electric Power Generation Research	.17
Aircraft Landing Dynamics5	Lasers	
Aircraft Navigation, Communication, and Traffic	Law, History, Policy, and Sociology	
Control	Navigation, Control, and Guidance Theory	
Aircraft Noise, Aerodynamics (Including Sonic	Reliability, Quality Control, and Maintainability	.18
Boom5	Research Facilities and Instrumentation	
Aircraft Noise, Powerplant	Safety	. 19
Aircraft Performance		
Aircraft Powerplant Design and Installation6	LAUNCH VEHICLE AND MISSILE	
Aircraft Structural Design (Including Loads)	(LV/M) TECHNOLOGY	
Aircraft Structural Materials		
Aircraft Subsystem Design	LV/M Aerodynamic Heating	19
Aircraft Testing (Including Component Wind	LV/M Aerodynamics	
Tunnel Testing)	LV/M Configurational Design	.19
Aircraft Vibration	LV/M Dynamics and Control	
Air Transportation Systems	LV/M Dynamics, Uncontrolled	
General Aviation Systems	LV/M Fabrication	
Ground Support Systems	LV/M Flight Testing	. 20
Military Aircraft Missions	LV/M Fuel and Propellant Systems (Including	•
ATD OD A DECEMBER OF A CALL AND ON	Storage and Transfer)	.20
AIRCRAFT TECHNOLOGY, VTOL	LV/M Guidance Systems (Including Command	•
Ground (or Water-Surface) Effect Machines	and Information Systems)	
Rotary Wing Aerodynamics	LV/M Gust Loading and Wind Shear	
VTOL Aircraft Design8	LV/M Mission Studies and Economics	. 20 20
VTOL Cabin Habitability and Design8	LV/M Simulation	20
VTOL Flight Operations8	LV/M Structural Design (Including Loads)	
VTOL Ground Support Systems8	LV/M Structural Design (Heliuding Loads)	
VTOL Handling, Stability, and Control8	LV/M System and Component Ground Testing	
VTOL Landing Dynamics8	LV/M Trajectories	20
VTOL Missions and Transportation Systems	Launch Vehicle Systems (Including Ground Support)	
VTOL Powerplant Design and Installation8	Missile Systems	
VTOL Structural Design (Including Loads)8	Sounding Rocket Systems	
VTOL Testing8	Tracking Systems	
VTOL Vibration8		
	MARINE TECHNOLOGY	
FLUID DYNAMICS		
	Marine Electric Power Systems	. 21
Boundary Layers and Convective Heat	Marine Hydrodynamics, Vessel and Control	
Transfer—Laminar8	Surface	
Boundary-Layers and Convective Heat	Marine Materials, Corrosion/Erosion	
Transfer—Turbulent9	Marine Mooring Systems and Cable Mechanics	.21
Boundary-Layer Stability and Transition	Marine Propulsion System Integration	. 21
Hydrodynamics	Marine Vessel Design (Including Loads)	
Jets, Wakes, and Viscid-Inviscid Flow Interactions	Marine Vessel Systems, Submerged	. Z!
Multiphase Flows	Marine Vessel Systems, Surface	. Zi
Nonsteady Aerodynamics	Marine Vessel Trajectories, Stability, and Control	. ZI
Nozzle and Channel Flow	Marine Vessel Vibration	. ZI
Plasma Dynamics and MHD	Oceanography, Physical and Biological	. ZI
Radiatively Coupled Flows and Heat Transfer	Propulsion System Hydrodynamics	.∠: 1
Rarefield Flows	Sea Pollution Containment and Control	ري. ان
Machine 1 10w3	Unucisca Acoustics	

Undersea Communication	Spacecraft Communication Systems	26
Undersea Extra-Vehicular Activity	Spacecraft Configurational and Structural Design	
Undersea Habitability and Life Support Systems21	(Including Loads)	27
Undersea Medicine (Including Psychology, Pressure	Spacecraft Electric Power Systems	27
Effects, etc.)	Spacecraft Flight Testing	
Undersea Mining Systems	Spacecraft Ground Testing and Simulation	2,
Ondersea winning systems	(Including Components)	27
	Spacecraft Habitability and Life Support Systems	27
PROPULSION		
Airbreathing Engine Testing	Spacecraft Mission Studies and Economics	21
Airbreathing Propulsion, Hypersonic	Spacecraft Navigation, Guidance, and Flight-Path	27
Airbreatning Propulsion, Hypersonic	Control Systems	2/
Airbreathing Propulsion, Subsonic and Supersonic22	Spacecraft Propulsion Systems Integration	28
Combustion in Gases	Spacecraft Sterilization	28
Combustion in Heterogeneous Media	Spacecraft Temperature Control Systems	28
Combustion Stability, Ignition, and Detonation23	Spacecraft Tracking	28
Electric and Advanced Space Propulsion	Space Crew Training	28
Fuels and Propellants, Properties of	Space Medicine (Including Weightlessness, Radiation	
Liquid Rocket Engines	Effects, Psychology, etc)	28
Marine Propulsion24	Space Station Systems, Manned	28
Nuclear Propulsion	•	
Rocket Engine Testing24	STRUCTURAL MECHANICS	
Solid and Hybrid Rocket Engines24	AND MATERIALS	
SPACECRAFT TECHNOLOGY	Aeroelasticity and Hydroelasticity	
of Moderati T Thomas of	Hypervelocity Impact	29
Data Sensing and Presentation or Transmission	Materials, Properties of	29
Systems24	Structural Composite Materials (Including Coatings)	29
Earth-Orbital Trajectories	Structural Design, Optimal	29
Earth Satellite Systems, Unmanned24	Structural Dynamic Ânalysis	30
Entry Deceleration Systems and Flight Mechanics	Structural Stability Analysis	31
(e.g. Parachutes)	Structural Static Analysis	
Entry Vehicle Dynamics and Control25	Thermal Stresses	31
Entry Vehicles and Landers		
Entry Vehicle Mission Studies and Flight Mechanics25	THEDMODITY CLOC AND	
Entry Vehicle Testing	THERMOPHYSICS AND	
Extraterrestrial Surface Transportation	THERMOCHEMISTRY	
Extra-Vehicular Activity	Atomic, Molecular, and Plasma Properties	32
Lunar and Interplanetary Spacecraft Systems,	Heat Conduction	32
Manned	Liquid and Solid Thermophysical Properties	32
Lunar and Interplanetary Spacecraft Systems,	Material Ablation	.32
Unmanned	Radiation and Radiative Heat Transfer	32
Lunar and Interplanetary Trajectories	Thermal Modeling and Experimental Thermal	
Meteoroid Protection Systems	Simulation	33
Radiation Protection Systems	Thermal Surface Properties	
Spacecraft Attitude Dynamics and Control	Thermochemistry and Chemical Kinetics	