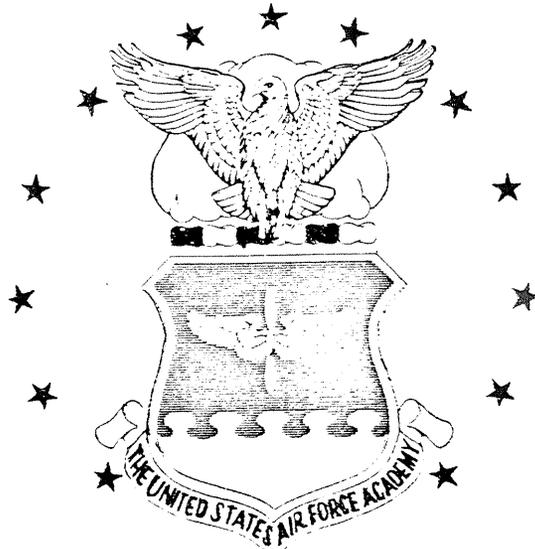


ASTRONAUTICS



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This bibliography was compiled by members of the Department of Astronautics and the Library staff. It represents a selected portion of the holdings of the Air Force Academy Library on the subject.

For current materials published **after** the date of this bibliography, consult the bi-monthly list of Selected New Books at the Academy Library.

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For the *purposes* of this bibliography, the following definition of astronautics was used:

astronautics, n. 1. The art, skill, or activity of operating space vehicles.
2. In a broader sense, the art or science of designing, building, and operating space vehicles. (Air University. Aero-space terms. Interim glossary. Maxwell AFB, Ala., 1958, p. 4)

The objectives of Astronautics 401 are:

1. To develop an appreciation of the engineering and military compromises which must be made in the creation of a new weapon system.
2. To develop an understanding of the fundamental physics of astronautics.

ASTRONAUTICS

Course Supplements

- British Interplanetary Society. Realities of space travel. London, Putnam, 1957. (TLE 1031 B86)
British Interplanetary Society papers, edited by L. J. Carter, on astronautics, the satellite vehicle, interplanetary flight, and the physical and biological aspects of space flight. Technical.
- Dornberger, Walter. V-2. New York, Viking Press, 1954. (UF 767 D71)
The story of German rocket research, 1930-1945 by the director of the Peenemunde experimental station. Work described in detail. Technical
- Gantz, Kenneth F. United States Air Force report on the ballistic missile. Garden City, N. Y., Doubleday, 1958. (UGK 1031 G21)
The ballistic missile -- its technology, logistics, and strategy. Many chapters were first published in Air University Quarterly Review. Glossary of related terms.
- Ley, Willy. Rockets, missiles, and space travel, Rev. and enl. ed. New York, Viking Press, 1957. (TLE 503 L68 1957)
Detailed account of rocket and missile research" and test and applications to future space travel.
- Rosen, Milton William. The Viking rocket story. 1st ed. New York, Harper, 1955. (TLE 531 R81)
The author, head of the Rocket Development Branch of the Naval Research Laboratory, explains how the rockets were designed and built, problems which came up, and testing and launching at White Sands. Non-technical language

Background Data

- Aller, Lawrence Hugh. Astrophysics. New York, Ronald Press, 1953. (QB 461 A434)
- Boyd, R. L. F. Rocket exploration of the upper atmosphere. London, Pergamon Press, 1954. (QC 879 B79)
- Budeler, Werner. To other worlds. London, Burke, 1954. (QB 44 B92)
- Fraser, Ronald George Juta. Once round the sun. New York, Macmillan, 1958. (QC 801.3 F84)
- Gatland, Kenneth William. Development of the guided missile. 2nd ed. London, published for Flight by Iliffe; New York, Philosophical Library, 1954. (TLE 531 G26)
- Goody, R. M. The physics of the stratosphere. Cambridge, England, University Press, 1954. (QC 879 G65)
- Hyde, Margaret Oldroyd. Exploring earth and space. New York, Whittlesey, 1957. (QC 801.3 H99)
- Kuiper, Gerard Peter. The atmospheres of the earth and planets. Rev. ed. Chicago, University of Chicago Press, 1952. (QB 505 K9 1952)
- Kurth, Rudolf. Introduction to the mechanics of stellar system. L O R ~ New York, Pergamon Press, 1957. (QB 351 K9)
- Levitt, Israel Monroe. A space traveller's guide to Mars. 1st ed. New Ysrk, Bolt, 1956. (QB 641 L66)

- Marbarger, John Porter. Space medicina. Urbana, University of Illinois Press, 1951. (TLC 230 M31)
- Newell, Homer E. High altitude rocket research. New York, Academic Press, 1953. (QC 879 N54)
- U. S. School of Aviation Medicine. Physics and medicine of the upper atmosphere. Albuquerque, University of New Mexico Press, 1952. (TLC 271 U5)
- U. S. Department of the Army. Army Library. Space travel. U. S. Department of the Army, 1956. (Z 5064 .S7 U5)
- Vaeth, Joseph Gordon. 200 miles up. 2nd ed. New York, Ronald Press, 1955. (QC 879 V12)
- Van Allen, James Alfred. Scientific uses of earth satellites. Ann Arbor, University of Michigan Press, 1956. (QC 879 V21)
- Watson, Fletcher Guard. Between the planets. Rev. ed. Cambridge, Harvard University Press, 1956. (QB 601 W33 1956)

Popular and Historical Accounts

- Bates, David R. Space research and exploration.
London, Eyre & Spottiswoode, 1957.
(TLE 1035 B32)
- Bergaust, Erik. Rockets and missiles. New York,
Putnam, 1957. (TLE 531 B49)
- Bergaust, Erik. Satellite! 1st ed. Garden City,
N. Y., Hanover House, 1956. (TLE 1121 B49)
- Braun, Wernher von. Conquest of the moon.
New York, Viking Press, 1953. (TLE 1031 B85)
- Braun, Wernher von. The Mars project. Urbana,
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(TLE 1031 B85m)
- Budeler, Werner. Operation vanguard. London,
Burke, 1957. (TLE 1121 B92)
- Burgess, Eric. Frontier to space. London,
Chapman & Hall, 1955. (TLE 1031 B95)
- Caidin, Martin. Rockets and missiles, past and
future. New York, McBride, 1954,
(TLE 503 C13)
- Caidin, Martin. Rockets beyond the earth. 2nd
ed. New York, McBride, 1954. (TLE 503 C13r)
- Caidin, Martin. Vanguard! the story of the
first man made satellite. New York, Dutton,
1957. (TLE 1121 C13)
- Clarke, Arthur Charles. The exploration of space.
1st ed. New York, Harper, 1951.
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- Clarke, Arthur Charles. Going into space. 1st ed. New York, Harper, 1954. (TLE 1041 C59)
- Clarke, Arthur Charles. The making of a moon. 1st ed. New York, Harper, 1957. (TLE 1121 C59)
- Coombs, Charles Ira. Rockets, missiles, and moons. New York, Morrow, 1957. (TLE 503 C77)
- Epstein, Beryl (Williams). The rocket pioneers on the road to space. New York, J. Messner, 1955. (TLE 515 E64)
- Gartmann, Heinz. The men behind the space rockets. New York, D. McKay, 1956. (TLE 515 G24)
- Gatland, Kenneth William. Project satellite. New York, British Book Centre, 1958. (TLE 1121 G26)
- Gatland, Kenneth William. Space travel. New York, Philosophical Library, 1953. (TLE 1031 G26)
- Goddard, Robert Hutchings. Rocket development. New York, Prentice-Hall, 1948. (TLE 515 G57)
- Goddard, Robert Hutchings. Rockets. New York, American Rocket Society, 1946. (TLE 515 G57r)
- Joubert de la Ferte, Sir Philip Bennet. Rocket. London, Hutchinson, 1957. (TLE 503 J8)
- Ley, Willy. The conquest of space. New York, Viking Press, 1949. (TLE 1031 L68)
- Ley, Willy. The exploration of Mars. New York, Viking Press, 1956. (TLE 1041 L681e)

Leyson, Burr Watkins. Man, rockets, and space.
1st ed. New York, Dutton, 1954.
(TLE 1041 L68)

Mallan, Lloyd. Secrets of space flight.
Greenwich, Conn., Fawcett Publications, 1956.
(TLE 1041 M25)

Oberth, Hermann. Man into space. New York,
Harper, 1957. (TLE 1031 01)

Parson, Nels A. Guided missiles in war and
peace. Cambridge, Harvard University Press,
1956. (TLE 531 P26)

Smith, Ralph Andrews. The exploration of the
moon. New York, Harper, 1954. (TLE 1031 S65)

Thompson, Gordon Vallins Elliot. The adventure
of space travel. New York, Roy Publishers,
1953. (TLE 1041 T47)

Latest Acquisitions

- Adams, Carsbie C. Space flight. New York, McGraw-Hill, 1958. (TLE 1031 A21)
- Beard, R. B. Space flight and satellite vehicles. New York, Pitman, 1958. (TLE 1031 B36)
- Besserer, Carl W. Missile engineering handbook (Principles of guided missile design, v. 4) Princeton, N. J., Van Nostrand, 1958. (TLE 531 P95 v.4)
- Branley, Franklyn M. Experiments in the principles of space travel. New York Thomas Crowell, 1955. (TLE 1031 B82)
- Burgess, Eric. Guided weapons. New York, Macmillan, 1957. (UGK 1031 B95)
- Burgess, Eric. Satellites and space flight. New York, Macmillan, 1957. (TLE 1121 B95)
- Caidin, Martin. Countdown for tomorrow. New York, Dutton, 1958. (TLE 1121 C13e)
- Clason, Clyde B. Exploring the distant stars, New York, Putnam, 1958. (QB 44 C62)
- Cox, Donald. Spacepower. Philadelphia: Winston, 1958. (TLE 1031 C87)
- Holmes, David C. What's going on in space? New York, Funk & Wagnalls, 1958. (TLE 1031 H74)

- Muller, Wolfgang Daniel. Man among the stars.
New York, Criterion Books, 1957.
(TLE 1031 M95)
- Peek, Bertrand Meigh. The planet Jupiter.
New York, Macmillan, 1958. (QB 661 P37)
- Rousseau, Pierre. Les satellites artificiels.
Paris, Hachette, 1957. (TLE 1121 R86)
- Scorer, R. S. Natural aerodynamics. New York,
Pergamon Press, 1958. (QC 880 S42)
- Shapley, Harlow. Of stars and men; the human
response to an expanding universe. Boston,
Beacon Press, 1958. (QB 981 S52)
- The space encyclopedia. New York, Dutton, 1957.
(TLE 1029 S73)
- Sternfeld, A. Interplanetary travel. Moscow,
Foreign Languages Publishing House, 1957.
(TLE 1031 S83)
- Stine, George Barry. Rocket power and space
flight. New York, Holt, 1957. (TLE 503 S85)
- Woodbury, David Oakes. Around the world in 90
minutes. New York, Harcourt, Brace, 1958.
(TLE 1121 W88)

Periodical Literature

The following periodicals received in the Air Force Academy Library frequently contain articles dealing with the aspects of aeronautics:

Aero/Space Engineering,

Aeronautics

Air Force

Aviation Age

Aviation Week

British Interplanetary Society Journal

Flight

Interavia

Jet Propulsion

Journal of the Aero/Space Sciences

Missile Engineering
(Aviation Week reprints)

Missiles and Rockets

Space Technology
(Aviation Week reprints)

Periodical Indexing Media

The following periodical indexes will be useful in finding articles on the aspects of astronautics. Some of the headings under which astronautics articles will be found in each index are given.

Air University Periodical Index

Astronautics

Ballistic Missile Type

Ballistic Missiles

Rocket Engines

Rockets

Rockets, Interplanetary

Satellites, Artificial

Space

Space Flight

Space Ships

Space *Stations*

Applied Science & Technology Index (1958 +)

Guided Missiles

Propellants

Rocket Propulsion

Rockets

Satellites, Artificial

Space Flight

Engineering Index

Aviation - Space Travel

Missiles

Rockets and Rocket Propulsion

Satellites

Industrial Arts Index (thru 1957)

Guided Missiles

Interplanetary Flight

Propellants

Rocket Propulsion

Rockets

Satellites, Artificial

Readers Guide to Periodical Literature

Artificial Satellites

Guided Missiles

Rocket Propulsion

Rockets

Rockets, Iaterplanetary

Solid Propellant Rockets

Space Flight

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Inquiries regarding technical report literature and bibliographies compiled by private and governmental agencies and other libraries should be made to the reference librarians in the Air Force Academy Library.