

**SPECIAL  
BIBLIOGRAPHY  
SERIES**

**NO. 87**

**TOOLING FOR WAR:  
MILITARY TRANSFORMATION  
IN THE INDUSTRIAL AGE**



**UNITED STATES  
AIR FORCE ACADEMY**

**LIBRARY**

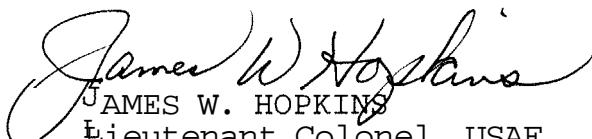


## INTRODUCTION

A study of war over the past century and a half clearly shows that technology has been a major agent of change. This bibliography lists works which examine the process of innovation in military technology and its political, social, and cultural framework. The bibliography was compiled at the request of the Department of History in support of the 16th Military History Symposium, which will be held at the United States Air Force Academy from 21 to 23 September 1994. The bibliography lists a selected portion of the US Air Force Academy Library's holdings on the indicated topic. Included are books, government publications, journal articles, and technical reports; neither newspaper articles nor works of fiction are included.

The purpose of this compilation is to promote understanding and analysis of military technical innovation. The choice of works dealing with military hardware was highly selective. Additional works from the vast and growing literature describing military equipment may be identified by searching appropriate indexes.

This bibliography was compiled by Mr. Elwood L. White of the Reference Branch of the Academy Library. The manuscript was prepared for the printer using Microsoft Word and Pro-Cite bibliographic software,

  
JAMES W. HOPKINS  
Lieutenant Colonel, USAF  
Director of Academy Libraries

## TABLE OF CONTENTS

I. SELECTED REFERENCE SOURCES.....	1
II. BIBLIOGRAPHIES.....	3
III. GENERAL STUDIES.....	7
IV. TECHNOLOGY AND WAR: 1850 TO 1918.....	14
V. TECHNOLOGY AND WAR: 1919 TO 1945.....	20
VI. TECHNOLOGY AND WAR SINCE 1945.....	24
VII. TECHNOLOGY AND WAR: SOCIAL AND POLITICAL ASPECTS . . . . .	32
VIII. AIR WARFARE: GENERAL STUDIES.....	40
IX. AIR WARFARE: AIRCRAFT, ARMAMENT, AND PROPULSION.....	45
X. LAND WARFARE: GENERAL STUDIES.....	46
XI. LAND WARFARE: SMALL ARMS AND ARTILLERY .....	48
XII. LAND WARFARE: MECHANIZATION- GENERAL STUDIES.....	51
XIII. LAND WARFARE: TANKS AND OTHER ARMORED VEHICLES . . . . .	53
XIV. LAND WARFARE: RAILWAYS.....	56
XV. NAVAL WARFARE: GENERAL STUDIES.....	59
XVI. NAVAL WARFARE: SURFACE SHIPS.....	62
XVII. NAVAL WARFARE: SUBMARINES.....	65
XVIII. NAVAL WARFARE: ARMAMENT.....	69
XIX. NUCLEAR WEAPONS AND WARFARE .....	70
XX. SPACE WARFARE .....	73
XXI. CHEMICAL AND BIOLOGICAL WARFARE.....	78
XXII. MILITARY ELECTRONICS AND COMMUNICATION.....	80
XXIII. LOGISTICS.....	86
XXIV. INTELLIGENCE AND RECONNAISSANCE.....	88
XXV. FUTURE WARFARE .....	91

## SELECTED REFERENCE SOURCES

Bonds, Ray. The Modern U.S. War Machine: An Encyclopedia of American Military Equipment and Strategy. New York: Crown, 1987.  
Ref UA 23 .M5856 1987.

Campbell, Christopher. Weapons of War. New York: Bedrick, 1983.  
Ref UF 500 .C35 1983.

Chant, Christopher, ed. How Weapons Work. Chicago: Cavendish, 1980.  
Ref U 800 .H62 1980.

Copley, Gregory, ed. Defense & Foreign Affairs Handbook. Alexandria; London: Intl. Media, 1976 to date.  
Ref UA 10 .D3.

Dupuy, Trevor N., et al., eds. International Military and Defense Encyclopedia. Washington: Brassey's, 1993. 6 vols.  
Ref U 24 .I58 1993.

Dupuy, Trevor N., Grace P. Hayes, and John A. C. Andrews. The Almanac of World Military Power. 4th ed. San Rafael: Presidio, 1980.  
Ref UA 15 .A44 1980.

The Encyclopedia of Land Warfare in the 20th Century. New York: Crowell, 1977.  
Ref U 24 .E5.

Gervasi, Tom. America's War Machine: The Pursuit of Global Dominance: Arsenal of Democracy III. New York: Grove, 1984.  
Ref UF 533 .G47 1984.

----- Arsenal of Democracy 11: American Military Power in the 1980s and the Origins of the New Cold War: With a Survey of American Weapons and Arms Exports. New York: Grove, 1981.  
Ref HD 9743 .U6 G4 1981.

The Illustrated Encyclopedia of 20th Century Weapons and Warfare. New York: Columbia House, 1977.  
24 vols.  
Ref U 24 .I45 1977.

Jane's Air-Launched Weapons. Coulsdon; Alexandria: Jane's, 1989 to date.  
Ref UGK 325 .J33 1992.

Jane's Strategic Weapons Systems. Coulsdon; Alexandria: Jane's, 1989 to date.

Ref UF 500 .J3 1990

Jane's Weapon Systems. New York: McGraw-Hill, 1969 to date.

Ref UF 520 .J3.

Luttwak, Edward. The Dictionary of Modern War. New York: HarperCollins, 1991.

Ref U 24 .L93 1991.

Macksey, Kenneth. The Penguin Encyclopedia of Modern Warfare: 1850 to the Present Day. London; New York: Viking, 1991.

Ref U 39 .M32 1991.

RUSI and Brassey's Defence Yearbook. London; Washington; New York: Brassey's, 1974 to date.

Annual.

Ref V 10 .B83.

Stockholm International Peace Research Institute. Armaments and Disarmament in the Nuclear Age: A Handbook. Atlantic Highlands, NJ: Humanities, 1976.

JX 1974.7 .S762 1976.

---. SIPRI Yearbook: World Armaments and Disarmament. New York: Oxford UP, 1968 to date.

Ref UA 10 .S69.

The Visual Dictionary of Special Military Forces. London; New York: Dorling Kindersley, 1993.

Ref U 102 .V54 1993.

World Defense Almanac: The Balance of Military Power. McLean, VA: Monch, n.d.

REFDSK U.

## BIBLIOGRAPHIES

### Books, Reports, and Government Documents

Albrecht, Ulrich, et al. A Short Research Guide on Arms and Armed Forces. New York: Facts on File, 1980.  
Z 6721 .S53 1980

Anderson, Frank J. Submarines, Divins, and the Underwater World: A Bibliography. Hamden, CT: Archon, 1975.  
Z 6834 .S9 A5 1975.

---. Submarines, Submariners, Submarining: A Checklist of Submarine Books in the English Language, Principally of the Twentieth Century. Hamden, CT: Shoe String, 1963.  
Z 6834 .S9 A54.

Armytage, W. H. G. "Economic, Scientific, and Technological Background for Military Studies, 1815-1914." A Guide to the Sources of British Military History. ed. Robin Higham. Berkeley: U. of California, 1971. 251-297.  
Z 2021 .M5 H63.

---. "The Economic, Scientific, and Technological Background: From the Beginnings to 1914." British Military History: A Supplement to Robin Higham's Guide to the Sources. ed. Gerald Jordan. New York: Garland, 1988. 31-100.  
Ref Z 2021 .M5 H54 Suppl.

Bird, Keith W. German Naval History: A Guide to the Literature. New York: Condon; Garland, 1985.  
Z 2241 .N3 B57 1985.

Clark, Ronald W. "Science and Technology, 1919-1945." A Guide to the Sources of British Military History. ed. Robin Higham. Berkeley: U. of California, 1971. 542-565.  
Z 2021 .M5 H63.  
bib.

Edgerton, David, and Philip Gummett, "Science, Technology, and Economics in the Twentieth Century." British Military History: A Supplement to Robin Higham's Guide to the Sources. ed. Gerald Jordan. New York: Garland, 1988. 477-500.  
Ref Z 2021 .M5 H54 Suppl.

Ezell, Edward C. "Science and Technology in the Nineteenth Century." A Guide to the Sources of United States Military History. ed. Robin Higham. Hamden: Archon, 1975. 185-215.  
Also in Suppl.  
I, p 44-55; Suppl. II, p77-83; Suppl. 3, p 125- 135.  
Ref Z 1249 .M5 G83 1975.

Ezell, Linda Neuman. "Science and Technology in the Twentieth Century." A Guide to the Sources of United States Military History: Supplement 11. ed. Robin Higham and Donald J. Mrozek. Hamden, CT: Archon, 1986. 96-100.  
Also in Suppl. 3, p. 157-162.  
Ref Z 1249 .M5 G83 1975 Suppl. 2.

Ferguson, Eugene S. Bibliography of the History of Technology. Cambridge: Society for the History of Technology, 1968.  
Z 7914 .H5 F35.

Graetzer, Hans G., and Larry M. Browning. The Atomic Bomb: An Annotated Bibliography. Pasadena: Salem, 1992.  
Z 6724 .A9 G73 1992.

Hallion, Richard. The Literature of Aeronautics. Astronautics, and Air Power. Washington: Office of Air Force History, USAF, 1985.  
Gov Docs D 301.96:L71.

National Research Council. Committee on Undersea Warfare. An Annotated Bibliography of Submarine Technical Literature, 1557 to 1953. Washington: n.p., 1954.  
Z 6834 .S9 N27.

Pursell, Carroll W. Jr. "Science and Technology in the Twentieth Century." A Guide to the Sources of United States Military History. ed. Robin Higham. Hamden: Archon, 1975. 269-291.  
Also in Suppl. I, p 69-71.  
Ref Z 1249 .M5 G83 1975.

Roland, Alex. "Technology and War: A Bibliographic Essay." Military Enterprise and Technological Change: Perspectives on the American Experience. ed. Merritt Roe Smith. Cambridge: MIT, 1985. 347-379.  
UF 533 .M55 1985.  
bib.

Showalter, Dennis E. German Military History. 1648-1982: A Critical Bibliography. New York; London: Garland, 1984.  
Z 2241 .M5 S5 1984.

U-Boats and T-Boats. 1914-1918. Washington: National Archives and Records Service, 1984.  
Gov Docs AE 1.112/2:1.

Weiss, John H. Technology and Social History. Cambridge: Harvard UP, 1971.  
Z 7914 .T25 W43.  
bib.

Williams, Marilyn, et al. The Future. Part 11: Warfare. Military Forces and Technology. Special Bibliography 185. Maxwell AFB: Air University Lib., 1972-1993.  
Includes supplements.  
(Reference Bibliography File).

## BIBLIOGRAPHIES

### Periodical Articles

Lowood, Henry, et al. "Current Bibliography in the History of Technology (1990)." Technology and Culture 33 (1992) : Supplement. See also similar annual compilations in issues of same journal, 1964-1991.

Roland, Alex. "Technology and War: The Historiographical Revolution of the 1980s." Technology and Culture 34 (Jan. 1993): 117-134.

Sherry, Michael S. "War and Weapons: The New Cultural History." Diplomatic History 14 (Summer 1990): 433-446.

GENERAL STUDIES

Books, Reports, and Government Documents

Addington, Larry H. The Patterns of War Since the Eighteenth Century. Bloomington: Indiana UP, 1984.  
U 39 .A33 1984.

Alford, Jonathan. The Impact of New Military Technology.  
Montclair: Gower & Allanheld, Osmun, 1981.  
U 162 .I48.

American Military Institute. Technology and Institutional Response: Papers Presented to a Joint Session of the American Military Institute at the Duquesne History Forum, Pittsburgh, Pennsylvania, November 1, 1972. Manhattan, KS: Military Affairs, 1974.  
VF 23 .A8 1974.

Bidwell, Shelford. Fire-Power: British Army Weapons and Theories of War, 1904-1945. London; Boston: Allen & Unwin, 1982.  
U 167 .B52.

Brodie, Bernard. "Technological Change, Strategic Doctrine, and Political Outcomes." Historical Dimensions of National Security Problems. ed. Klaus Knorr. Lawrence: UP of Kansas, 1976. 263-306. UA 10 .H54.

Brodie, Bernard, and Fawn M. Brodie. From Crossbow to H-Bomb. rev. ed. Bloomington: Indiana UP, 1973.  
U 27 .B76 1973.

Brooks, Harvey. "The Military Innovation System and the Qualitative Arms Race." Arms, Defense Policy, and Arms Control. ed. Franklin A. Long and George W. Rathjens. New York: Norton, 1976. 75-97.  
JX 1974.7 .A68 1976.

Bruce-Briggs, B. The Shield of Faith: A Chronicle of Strategic Defense from Zeppelins to Star Wars. New York: Simon & Schuster, 1988.  
UA 23 .B78457 1988.

Carlton, David, and Carlo Schaerf. The Dynamics of the Arms Race. New York: Wiley, 1975.  
JX 1974.7 .D88.

Clark, Ronald William. War Winners. London: Sidgwick & Jackson, 1979.  
UF 526 .C55 1979.

Dupuy, Trevor N. The Evolution of Weapons and Warfare.  
Indianapolis: Bobbs-Merrill, 1980.  
U 21.2 .D84.

Fuller, J. F. C. Armament and History: A study of the Influence of Armament on History from the Dawn of Classical Warfare to the Second World War. New York: Scribner's, 1945.  
U 102 .F84.

Gabriel, Richard A., and Karen S. Metz. A Short History of War: The Evolution of Warfare and Weapons. Carlisle Barracks: Strategic Studies Institute, U.S. Army War College, 1992.  
Gov Doc D101.2:SHORT.

Gutteridge, William, and Trevor Taylor, eds. The Dangers of New Weapon Systems. New York: St. Martin's, 1983.  
UF 5000 .D36 1983.

Haycock, Ronald, and Keith Neilson, eds. Men, Machines, and War. Waterloo: Wilfrid Laurier UP, 1988.  
U 27 .M45 1988.

Holley, I. B. Jr., and Theodore Ropp. "Technology and Strategy." Technology in Western Civilization. Vol. 2: Technology in the Twentieth Century. ed. Melvin Kranzberg, et al. New York: Oxford UP, 1967. 590-601. 2 vols.  
T 15 .T25 v. 2.

Holley, Irving B. Jr. "Doctrine and Technology as Viewed by Some Seminal Theorists of the Art of Warfare from Clausewitz to the Mid-Twentieth Century!! Emerging Doctrines and Technologies: Implications for Global and Regional Political-Military Balances. ed. Robert L. Pfaltzgraff Jr., et al. Lexington: Heath, 1988. 13- 34.  
U 42 .E48 1988.

Katzenbach, Edward L. "Tradition and Technological Change!! American Defense Policy. ed. John F. Reichart, and Steven R. Sturm. 5th ed. Baltimore: Johns Hopkins UP, 1982. 638-651.  
Spec. Coll. UA 23 .A626 1982.

Klass, Gert von. Krupps: The Story of an Industrial Empire. London: Sidgwick & Jackson, 1954.  
UF 537 .K7 K6.

Knorr, Klaus E. The War Potential of Nations. Princeton: Princeton UP, 1956.  
UA 10 .K7.

Landes, David S. The Unbound Prometheus: Technological Change and Industrial Development in Western Europe from 1750 to the Present. London: Cambridge UP, 1969.  
HC 240 .L25.

Lapp, Ralph E. Arms Beyond Doubt: The Tyranny of Weapons Technology. New York: Cowles, 1970.  
UA 23 .L31.

Lee, R. G. Introduction to Battlefield Weapons Systems and Technology. 2d. ed. London: Brassey's, 1985.  
UF 500 .L43 1985.

Lynn, John A. Tools of War: Instruments, Ideas, and Institutions of Warfare, 1445-1871. Champaign: U of Illinois, 1990.  
U 39 .T66 1990.

MacDonald, Brian, ed. Tactics and Technology. Toronto: Canadian Inst. of Strategic Studies, 1986.  
UA 600 .T26 1986.

McGuire, Martin C. Secrecy and the Arms Race: A theory of the Accumulation of Strategic Weapons and How Secrecy Affects it. Cambridge: Harvard UP, 1965.  
UA 10 .M14.

Menne, Bernhard. Blood and Steel: The Rise of the House of Krupp. New York: Furman, 1938.  
HD 9523.9 .K9Me.

Millis, Walter. Arms and Men: A study in American Military History. New Brunswick: Rutgers UP, 1981.  
E 181 .M699 1984.

Morison, Elting E. From Know-How to Nowhere: The Development of American Technology. New York: Basic, 1975.  
T 21 .M7 1975.

Morison, Elting Elmore. Men, Machines, and Modern Times. Cambridge: MIT, 1966.  
T 14 .M86.

Morris, Eric. Weapons and Warfare of the 20th Century. Secaucus: Derbibooks, 1976.  
U 42 .W4.

O'Connell, Robert L. Of Arms and Men: A History of War, Weapons, and Aggression. New York: Oxford UP, 1989.  
U 27 .026 1989.

Palmer, Thomas A. "Military Technology." Technology in Western Civilization. Vol. 1: The Emergence of Modern Industrial Society, Earliest Times to 1900. ed. Melvin Kranzberg et al. New York: Oxford UP, 1967. 489-502. 2 vols.  
T 15 T25 v. 1.

Paret, Peter. Innovation and Reform in Warfare. Harmon Memorial Lectures in Military History no. 8. n.p.: USAF Academy, 1966.  
U 19 .P22.

Pearson, Maurice. Diplomacy, War, and Technology Since 1830. Lawrence: UP of Kansas, 1984.  
U 43 .E95 p43 1984.

Pick, Daniel. War Machine: The Rationalisation of Slaughter in the Modern Age. New Haven: Yale UP, 1993.  
U 21.2 .P535 1993.

Posseny, Stefan T., and J. E. Pournelle. The Strategy of Technology: Winning the Decisive War. Cambridge: Cambridge UP, 1970.  
U 104 .P85.

Ropp, Theodore. War in the Modern World. Durham: Duke UP, 1959.  
U 39 .R78.

Smith, Merritt Roe, et al. Military Enterprise and Technological Change: Perspectives on the American Experience. Cambridge: M.I.T., 1985.  
UF 533 .M55 1985.

Travers, Timothy. Men at War: Politics, Technology, and Innovation in the Twentieth Century. Chicago: Precedent, 1981.  
U 42 .M43.

Wheldon, John. Machine Age Armies. New York: Abelard-Schuman, 1968.  
U 102 .W566.

Wright, Monte D., and Lawrence J. Paszek, eds. Science, Technology, and Warfare: The Proceedings of the Third Military History Symposium.... Washington; Colorado Springs: Office of AF History; USAF Academy, 1969.  
UGB 789 1969.

Wright, Quincy. A Study of War. 2nd ed. Chicago: U. of Chicago, 1965.  
Lib. also has 1942 ed. & abridged 1964 ed.  
U 21 .W94 1965.

## Periodical Articles

Agnew, Harold M. "Technological Innovation: A Necessary Deterrent or Provocation?" Air Force and Space Digest 50 (May 1967): 66+.

Allard, Kenneth. "History, Technology, and the Structure of Command." Military Review 61 (Nov. 1981): 4-9.

---. "History, Technology, and the Structure of Command." Military Review 61 (Nov. 1981): 4-9.

Baucom, Donald R. "Technological War: Reality and the American Myth." Air University Review 32 (Sept.-Oct. 1981): 56-66.

Bex, John E. "U.S. Development of Optimal Defense Technology." Military Review 50 (Aug. 1970): 70-74.

Brown, George S. "Technology: The Mold for Future Strategy." Strategic Review 1 (Spring 1973): 23-28.

Chapin, Seymour C. "Science, Technology and Warfare: Comments on a Symposium and a Theme." Revue Militaire Generale no. 4 (April 1970): 511-528.

Davis, William O. "The Ordering of Technological Warfare." Air University Quarterly Review 12 (Spring 1960): 66-73.

Demchak, Chris C. "Complexity, Rogue Outcomes and Weapon Systems." Public Administration Review 52 (July/Aug. 1992): 347- 355.

Drew, Dennis M. "Technology and the American Way of War: Worshiping a False Idol?" Air Force Journal of Logistics 21 (Winter 1987): 21-23.

Dupuy, Trevor N. "The Influence of Technology on War." Marine Corps Gazette 67 (Sept. 1983): 50-59.

Dupuy, Trevor N., and Arnold C. Dupuy. "Understanding War From Historical Perspective." Marine Corps Gazette 69 (June 1985): 53-58.

Eliot, George Fielding. "Technological Surprise." Ordnance 54 (July/Aug. 1969): 54-56.

Fox, Neal I. "On Technological War." Air University Review 36 (Nov./Dec. 1984): 79-83.

Ginsburgh, Robert N. "The Challenge of Changing Warfare." Air University Review 21 (Mar./April 1970): 52-59.

- Haasler, Ruprecht, and Hans Goebel. "Uneasiness About Technological Progress in the Armed Forces." Military Review 62 (Oct. 1982): 62-72.
- Hall, George M. "Cycle of Military Technology." Military Review 68 (Aug. 1988): 42-48.
- Handel, Michael I. "Clausewitz in the Age of Technology." Journal of Strategic Studies 9 (June/Sept. 1986): 51-92.
- Hayward, J. T. "The Impact of Technology on Strategy." U.S. Naval Institute Proceedings 98 (Sept. 1972): 24-30.
- "Heroism, Technology, and Strategy: The Brew of War." Air University Review 35 (Mar./April 1984): 88-94.
- Hoffmann, Paul J. "New World for Which to War." Military Review 51 (Nov. 1971): 67-76.
- Howard, Michael. "War and Technology." Royal United Services Institute for Defence Studies Journal 132 (Dec. 1987): 17-22.
- Hughes, Thomas P. "Emerging Themes in the History of Technology." Technology and Culture 20 (Oct. 1979): 697-711.
- Lincoln, G. A., and Amos A. Jordan Jr. "Technology and the Changing Nature of General War." Military Review 37 (May 1957): 3-13.
- Long, Franklin A. "Advancing Military Technology: Recipe for an Arms Race." Current History 82 (May 1983): 215-219.
- Macmillan, David T. "Technology: The Catalyst for Doctrinal Change." Air University Review 29 (Nov./Dec. 1977): 16-22.
- Mahncke, Frank C. "From Technology to Tactics: Finding the Missing Link." Naval War College Review 42 (Spring 1989): 98-107.
- Mason, R. A. "Innovation and the Military Mind." Air University Review 37 (Jan./Feb. 1986): 39-44.
- Miksche, Ferdinand Otto. "Technology in Warfare." Military Review 39 (May 1959): 3-8.
- ... "The Soldier and Technical Warfare." Military Review 42 (Aug. 1962): 71-78.
- O'Neil, William D. "Combat by Order of Technology." Military Science and Technology 2 (1982): 66-72.

Pease, Charles C. "How Adaptive Has the Military Been to Technological Change?" Naval War College Review 25 (Mar./Apr. 1973): 26-31.

Perle, Richard. "Technology and the Quiet War." Strategic Review 11 (Winter 1983): 29-35.

Przemieniecki, J. S. "Technological Competence and the Military Commander." Air University Review 32 (Nov./Dec. 1980): 70-78.

Raudzens, George. "War-Winning Weapons: The Measurement of Technological Determinism in Military History." Journal of Military History 54 (Oct. 1990): 403-433.

Reinicke, Adolf. "Technology's Challenge to Leadership." Military Review 43 (April 1963): 31-35.

Rigg, Robert B. "Military Innovation and Creative Thinking." Military Review 46 (Feb. 1966): 20-23.

Sandler, Stanley. "Technology and the Military." U.S. Naval Institute Proceedinss 98 (Mar. 1972): 54-61.

Strausze-Hupe, Robert. "New Weapons and National Strategy." Military Review 41 (May 1961): 70-76.

Treille, Jean-Michel. "Progres Technique et Defense Militaire dans le Monde Contemporain. II: Progres Technique et Evolution des Outils de Defense." Defense Nationale 36.8 (1980): 109-127.

Treille, Jean-Michel. "Progres Technique et Defense Militaire dans le Monde Contemporain. I: Capacite Technologique et Capacite de Defense Militaire." Defense Nationale 36.6 (1980): 57-70.

Van Creveld, Martin. "When Technology Goes to War." American Heritage of Invention & Technolosy 4 (Winter 1989): 48-55.

... "A Short History of the Management of Violence." MHO: The Quarterly Journal of Military History 1 (Autumn 1988): 56-65.

Watson, Mark S. "Obsolescence." Military Review 41 (June 1961): 2-7.

Williams, John D. "The Quantum Leap." U.S. Naval Institute Proceedinss 113 (Nov. 1987): 63-69.

TECHNOLOGY AND WAR: 1850 TO 1918

Books, Reports, and Government Documents

Abbot, Willis J. Aircraft and Submarines: The Story of the Invention, Development, and Present-Day Uses of War's Newest Weapons. New York; London: Putnam's, 1918.  
Gimbel Coll. D 600 .A12.

Baker, Chauncey B. Transsortation of Troops and Materiel. Kansas City: Hudson, 1905.  
UC 270 .B2.

Bloch, Jan. Is War Now Impossible? Being an Abridgement of The War of the Future in its Technical, Economic and Political Relations. Hampshire, England; Brookfield, VT: Gregg Revivals, 1991.  
U 102 .B58 1991.

Bloch, Jean de. The Future of War in Its Technical, Economic, and Political Relations. Boston: Ginn, 1902.  
Lib. also has 1972 ed.  
U 102 .B65.

Bond, Brian. "Mechanized Warfare and the Growth of Pacifism." The Nineteenth Century: The Contradictions of Progress. ed. Asa Briggs. New York: McGraw-Hill, 1970. 185-214.  
Oversize CB 415 .B85.

Brackenbury, Charles B. Eurosean Armaments in 1867: Based Upon Letters Reprinted, by Permission, from The Times. London: Chapman & Hall, 1867.  
Spec. Coll. U 820 .B79.

Cooling, Benjamin Franklin. Gray Steel and Blue Water Navy: The Formative Years of America's Military-Industrial Complex, 1881- 1917. Hamden, CT: Archon, 1979.  
VF 373 .C66.

Gudmundsson, Bruce I. Stormtroos Tactics: Innovation in the German Army, 1914-1918. New York: Praeger, 1989.  
D 531 .G85 1989.

Hagerman, Edward H. The Evolution of Trench Warfare in the American Civil War. Diss. : Duke U., 1965.  
UG 446 .H3.

Hagerman, Edward, and Thomas O. Kelly II. The American Civil War and the Origins of Modern Warfare: Ideas, Organizations, and Field Command. Bloomington: Indiana UP, 1988.  
E 491 .H16 1988.

Hallion, Richard P., and Roger E. Bilstein. Rise of the Fisher Aircraft, 1914-1918. Annapolis: Nautical Aviation, 1984.  
D 600 .H3 1984.

Hartcup, Guy. The War of Invention: Scientific Developments 1914-18. London; Washington: Brassey's, 1988.  
D 639 .S2 H37 1988.

Headrick, Daniel R. The Tools of Empire: Technoloov and European Imperialism in the Nineteenth Century. New York: Oxford UP, 1981. T 19 .H4.

Holley, I. B. Ideas and Weadons: Exploitation of the Aerial Weapon by the United States During World War I: a Study in the Relationship of Technological Advance, Military Doctrine, and the Development of Weapons. New Haven: Yale UP, 1953.  
D 606 .H73 1969.

Hughes, Thomas P. Elmer Sperry: Inventory and Ensineer. Baltimore: Johns Hopkins UP, 1971.  
TA 140 .S68 H79.

Katzenbach, Edward L. Jr. "The Mechanization of War, 1880-1919." Technology in Western Civilization, Vol. 2: Technoloov in the Twentieth Century. ed. Melvin Kranzberg, et al. New York: Oxford UP, 1967. 548-561. 2 vols.  
T 15 .T25 v. 2.

Luvaas, Jay. The Military Legacy of the Civil War. Chicago: U. of Chicago, 1959.  
E 470 .L97.

Norman, Sandra Lee. Guncotton to Smokeless Powder: The Development of Nitrocellulose as a Military Explosive. 1845-1929. Diss. : Brown U., 1977.  
TP 276 .N67 1994.

Ralston, David B. Importing the European Army: The Introduction of European Military Techniques and Institutions into the Extra-European World, 1600-1914. Chicago: U. of Chicago, 1990.  
UA 830 .R34 1990.

Rawling, Bill. Surviving Trench Warfare: Technoloov and the Canadian Corps. 1914-1918. Toronto; Buffalo: U. of Toronto, 1992.  
D 639 .S2 R35 1992.

Showalter, Dennis. "Weapons and Ideas in the Prussian Army from Frederick the Great to Moltke the Elder." Tools of War: Instruments, Ideas, and Institutions of Warfare, 1445-1871. ed. John A. Lynn. Urbana: U. of Illinois, 1990. 177-210.  
U 39 .T66 1990.

Showalter, Dennis E. Railroads and Rifles: Soldiers, Technology, and the Unification of Germany. Hamden, CT: Archon, 1975.  
DD 103 .S54.

Smith, Merritt Roe. "Military Entrepreneurship." Yankee Enterprise: The Rise of the American System of Manufactures. ed. Otto Mayr, and Robert C. Post. Washington: Smithsonian, 1981. 63- 102.  
Gov Doc SI1.2:Y1.

Strachan, Hew. "The British Army and 'Modern' War: The Experience of the Peninsula and of the Crimea." Tools of War: Instruments, Ideas, and Institutions of Warfare, 1445-1871. ed. John A. Lynn. Urbana: U. of Illinois, 1990. 211-237.  
U 39 .T66 1990.

Sumida, Jon T. In Defence of Naval Supremacy: Finance, Technolow, and British Naval Policv, 1889-1914. Boston: Unwin Hyman, 1989.  
VA 454 .S86 1989.

Swinton, Ernest D. Eyewitness: Being Personal Reminiscences of Certain Phases of the Great War, Includins the Genesis of the Tank. New York: Arno, 1972.  
D 544 .S88.

Terraine, John. White Heat: The New Warfare 1914-18. London: Sidgwick & Jackson, 1982.  
U 738 .T48 1982.

Travers, Timothy. The Killing Ground: The British Army, the Western Front. and the Emergence of Modern Warfare, 1900-1918. London; Boston: Allen & Unwin, 1978.  
D 530 .T73 1987.

... How the War Was Won: Command and Technolow in the British Army on the Western Front, 1917-1918. New York: Routledge, 1992.  
D 546 .T73 1992.

Trebilcock, Clive. The Industrialization of the Continental Powers, 1780-1914. London; New York: Longmans, 1981.  
HC 240 .T69.

Von Dewitz, Hrolf. War's New Weapons: An Expert Analysis in Plain Language of the Weapons and Methods Used in the Present Great War. New York: Dodd, Mead, 1915.  
U 105 .D22.

Williams, Henry S. Modern Warfare. New York: Hearst's Intl. Library Co, 1915.  
U 105 .W72.

### **Periodical Articles**

Austerman, Wayne R. "Case Shot and Canister." Civil War Times 26 (Sept. 1987): 16-29.

Buhl, Lance C. "Marines and Machines: Resistance to Technological Change in the American Navy, 1865-1869." Journal of American History 61 (Dec. 1974): 703-727.

Grant, Jonathan. "Tsarist Armament Strategies 1870-1914." Journal of Soviet Military Studies 4 (Mar. 1991): 141-149.

Lee, Kennett. "Military Inventions and Popular Involvement, 1914-1918." War & Society 3 (Sept. 1985): 69-73.

Macleod, Roy M., and E. Kay Andrews. "Scientific Advice in the War at Sea, 1915-1917: The Board of Invention and Research." Journal of Contemporary History 6 (1971): 3-40.

Pindell, Richard. "Our Technological Inheritance." Civil War Times .42-47 (Summer 1987):

Schneider, James J. "The Theory of the Empty Battlefield." Royal United Services Institute for Defence Studies Journal 132 (Sept. 1987): 37-44.

Shimshoni, Jonathan. "Technology, Military Advantage, and World War I: A Case for Military Entrepreneurship." International Security 15 (Winter 1990/91): 187-215.

Smith, Merritt R. "John H. Hall, Simeon North, and the Milling Machine: The Nature of Innovation Among Antebellum Arms Makers." Technology and Culture 14 (Oct. 1973): 573-591.

Travers, T. H. E. "Technology, Tactics, and Morale: Jean de Bloch, the Boer War, and British Military Theory, 1900-1914." Journal of Modern History 51 (June 1979): 264-286.

.... "The Offensive and the Problem of Innovation in British Military Thought 1870-1915." Journal of Contemporary History 13 (July 1978): 531-553.

Trebilcock, Clive. "Spin-Off in British Economic History: Armaments and Industry 1760-1914." Economic History Review 22.series 2 (Dec. 1969): 474-490.

.... "British Armaments and European Industrialization 1890-1914." Economic History Review 26.series 2 (May 1973): 254-272.

Woodbury, Robert S. "The Legend of Eli Whitney and  
Interchangeable Parts." Technology and Culture 1 (Summer  
1960): 235-253.

**TECHNOLOGY AND WAR: 1919 TO 1945**  
**Books, Reports, and Government Documents**

Ackerson, Jeffrey W. Analysis of Changing Technology During the Battle of Britain and Its Applicability to Future Command and Control Systems Issues. Maxwell AFB: Air Command and Staff College, 1988.  
Report Lit. ADA 192 932.

Baldwin, Ralph B. The Deadly Fuze: The Secret Weapon of World War II. San Francisco: Presidio, 1980.  
UF 780 .B34.

Burchard, John E., ed. Rockets, Guns and Targets: Rockets, Target Information, Erosion Information, and Hypervelocity Guns Developed During World War II by the Office of Scientific Research and Development. Boston: Little, Brown, 1948.  
D 810 .S2 B94.

Falls, Cyril. The Nature of Modern Warfare. New York: Oxford UP, 1941.  
U 19 .F19.

Germain, Victor W. The "Mechanization" of War. London: Sifton Praed, 1927.  
U 102 .G37.

Gordon, G. A. H. British Seapower and Procurement Between the Wars: A Reappraisal of Rearmament. Annapolis: Naval Inst, 1988.  
VC 265 .G7 G67 1988.

Green, Constance McLaughlin, Harry C. Thomson, and Peter C. Roots. United States Army in World War II. The Technical Services. The Ordnance Department: Planning Munitions for War. Washington: Dept. of the Army, Office of the Chief of Military History, 1955.  
D 769 .A74 v. 6 p. 3 v. 1.

Hallion, Richard P. Strike from the Sky: The History of Battlefield Air Attack. 1911-1945. Washington: Smithsonian, 1989.  
UGK 251 .H35 1989

Hartcup, Guy. The Challenge of War: Britain's Scientific and Engineering Contributions to World War Two. New York: Taplinger, 1970.  
UF 535 .G7 H32.

Hogg, Ian V. German & Allied Secret Weapons of World War II.  
Secaucus: Chartwell, 1976.  
Ref UF 520 .H63 1976.

Homze, Edward L. Arming the Luftwaffe: The Reich Air Ministry and the German Aircraft Industry, 1919-39. Lincoln: U. of Nebraska, 1976.  
UGB 13 .H76 1976.

Hungerford, Edward. Transport for War, 1942-1943. New York:  
Dutton, 1943.  
HE 206 .H93.

Johnson, Brian. The Secret War. New York: Methuen, 1978.  
D 810 .S2 563.

Johnson, David Eugene. Fast Tanks and Heavy Bombers: The United States Army and the Development of Armor and Aviation Doctrines and Technologies, 1917 to 1945. Diss. : Duke U., 1990.  
U 43 .U6 J63 1994.

Kemp, Norman. The Devices of War. London: Laurie, 1956.  
D 810 .S2 K3.

Law, A. M. Modern Armaments. London: Gifford, 1939.  
U 105 .L91.

Liddell Hart, B. H. The Revolution in Warfare. New Haven: Yale UP, 1947.  
U 102 .L71.

Macrae, R. Stuart. Winston Churchill's Toyshop. New York: Walker, 1972.  
D 759 .M25.

Newman, James R. The Tools of War. Garden City: Doubleday, 1942.  
U 102 .N55.

Pawle, Gerald. The Secret War, 1939-45. London: Harrap, 1956.  
D 810 .S2P34.

Posen, Barry. The Sources of Military Doctrine: France, Britain, and Germany Between the World Wars. Ithaca: Cornell UP, 1984.  
U 162 .P66 1984.

Richards, Pamela Spence. Scientific Information in Wartime: The Allied-German Rivalry, 1939-1945. Westport: Greenwood, 1994.  
D 910 .S2 R53 1994.

Sanders, Ralph. "Three-Dimensional Warfare: World War II," Technology in Western Civilization, Vol. 2: Technology in the Twentieth Century. ed.

Melvin Kranzberg et al. New York: Oxford UP, 1967. 561-578. 2 vols.  
T 15 .T25 v. 2.

Simon, Leslie E. German Research in World War II: An Analysis of the Conduct of Research. New York; London: Wiley; Chapman & Hall, 1947.  
UF 526.5 .G3 S59.

---. Secret Weapons of the Third Reich: German Research in World War II. Old Greenwich, CT: We, 1971.  
UF 526.5 .G3 S59 1971.

---. German Scientific Establishments. Brooklyn: Mapleton, 1947.  
D 810 .S2 S5.

Strahan, Jerry E. Andrew Jackson Higgins and the Boats That Won World War II. Baton Rouge: Louisiana State UP, 1994.  
VM 140 .H54 S73 1994.

Terrell, Edward. Admiralty Brief: The Story of Inventions that Contributed to Victory in the Battle of the Atlantic.  
London: Harrap, 1958.  
D 770 .T32.

Thiesmeyer, Lincoln R. Combat Scientists. Boston: Little, Brown, 1947.  
D 810 .S2 T43.

United States Strategic Bombing Survey. Japanese Naval Ordnance. Washington: GPO, 1946.  
D 785 .S8998 no. 44.

Von Karman, Theodore. Where We Stand: A Report Prepared for the AAF Scientific Advisory Group. Wright Field: Air Materiel Command, 1946.  
UGH 5612 .T73 v.2.

### **Periodical Articles**

- Boog, Horst H. "The Luftwaffe and Technology." Aerospace Historian 30 (Fall/Sept. 1983): 200-206.
- Defrasne, J. "L'Attitude du Commandement Francais Face aux Repercussions Militaires de la Revolution Technique et Industrielle de 1919 a 1940: Le Facteur "Renseignement"." Revue Internationale d'Histoire Militaire 55 (1983): 185-211.
- Emme, Eugene M. "Technical Change and Western military Thought-1914-1945." Military Affairs 24 (Spring 1960): 6-19.
- Fearon, Peter. "The British Airframe Industry and the State, 1918-35." Economic History Review 27 (May 1974): 236-253.
- Manley, J. H. "Assembling the Wartime Labs." Bulletin of the Atomic Scientists 30 (May 1974): 42-47.
- McGucken, William. "The Central Organisation of Scientific and Technical Advice in the United Kingdom During the Second World War." Minerva 17 (Spring 1979): 33-69.
- Smith, Thomas T. "The Bodden Line: A Case Study in Wartime Technology." Intelligence and National Security 6 (April 1991): 447-457.

TECHNOLOGY AND WAR SINCE 1945

Books, Reports, and Government Documents

Adjusting to a New Security Environment: The Defense Technology and Industrial Base Challenge. Washington: GPO, 1991.  
Gov Docs Y 3.T22/2:2E.

Allen, Matthew. Military Helicopter Doctrines of the Major Powers, 1945-1992: Making Decisions about Air-Land Warfare. Westport: Greenwood, 1993.  
UGH 3121 .A58 1993.

Almond, Denise L. et al. Desert Score. U.S. Gulf War Weapons: Description, Battle Performance, Funding Profile. Washington: Carroll; United Communications, 1991.  
Ref UF 553 .D37 1991.

Almquist, Peter. Red Force: Soviet Military Industry Since 1965. New York: Columbia UP, 1990.  
HD 9743 .S672 A44 1990.

Barnaby, Frank, and Marlies Ter Borg, eds. Emerging Technologies and Military Doctrine. New York: St. Martin's, 1986.  
UF 500 .E53 1986.

Blackwell, James. "Prospects and Risks of Technological Dependency." Strategy and Technology. Carlisle Barracks: Strategic Studies Inst., U.S. Army War College, 1992. 29-51.  
Gov Doc D101.2:SSI/Strategy.

Bonen, Zeev. "Technology in War- Preliminary Lessons from the Gulf War," War in the Gulf: Implications for Israel. ed. Joseph Alpher. Boulder: Westview, 1993. 170-183.  
DS 79.724 .I75 W37 1993.

Brodie, Bernard. Strategy in the Missile Age. Princeton: Princeton UP, 1959.  
UA 11 .B86.

Burt, Richard. New Weapons Technologies: Debate and Directions. Adelphi Papers no. 126. London: International Institute for Strategic Studies, 1976.  
U 162 .A23 no. 126.

Clark, Asa A., and John F. Lilley, eds. Defense Technology. New York: Praeger, 1989.  
UF 503 .D43 1989.

Clodfelter, Mark. The Limits of Air Power: The American Bombing of North Vietnam. New York; London: Free Pr.; Collier Macmillan, 1989.  
Spec. Coll. DS 558.8 .C56 1989.

Cordesman, Anthony H. "Compensating for Smaller Forces: Adjusting Ways and Means Through Technology." Stratesv and Technology. Carlisle Barracks: Strategic Studies Institute, U.S. Army War College, 1992. 1-28.  
Gov Doc D101.2:SSI/Strategy.

Dean, David J., ed. Low-Intensity Conflict and Modern Technology. Maxwell AFB: Air University, 1986.  
Gov Docs D 301.26/6:C.

DeLaver, Richard D. "Emerging Technologies and Their Impact on the Conventional Deterrent." The Conventional Defense of Europe: New Technologies and New Strategies. ed. Andrew J. Pierre. New York: New York UP, 1988. 40-70.  
UA 646 .C6749 1988.

Digby, James F. Precision-Guided Weapons; New Chances to Deal with Old Dangers. Santa Monica: Rand, 1975.  
Report Lit. RAND-P-5384; ADA 022 220.

Doleman, Edgar C. Tools of War. Boston: Boston Pub. Co., 1985.  
DS 559.8 .S3 D64 1985.

Dunnigan, James F., and Austin Bay. From Shield to Storm: High-Tech Weapons, Military Strategy, and Coalition Warfare in the Persian Gulf. New York: Morrow, 1992.  
DS 79.72 .D86 1992.

Emme, Eugene M. "The Contemporary Spectrum of War." Technology in Western Civilization. Vol. 2: Technology in the Twentieth Century. ed. Melvin Kranzberg et al. New York: Oxford UP, 1967. 578-590.  
T 15 .T25 v.2.

Erickson, John, Edward L. Crowley, and Nikolai Galay, eds. The Military-Technical Revolution: Its Impact on Strategy and Foreign Policy. New York: Praeger, 1966.  
UA 11 .E6.

Evangelista, Matthew. Innovation and the Arms Race: How the United States and the Soviet Union Develop New Military Technologies. Ithaca: Cornell UP, 1988.  
UF 533 .E93 1988.

Feld, Bernard T., ed. Impact of New Technologies on the Arms Race. Cambridge: MIT, 1971.  
UA 10 .P97.

Flintham, Victor. Air Wars and Aircraft: A Detailed Record of Air Combat, 1945 to the Present. New York: Facts on File, 1990.  
UGH 21 .F62 1990

Franklin, H. Bruce. War Stars: The Superweapon and the American Imagination. New York: Oxford UP, 1988.  
UF 533 .F73 1988.

Friedman, Richard S. Advanced Technology Warfare: A Detailed Study of the Latest Weapons and Techniques for Warfare Today and into the 21st Century. New York: Harmony, 1985.  
UF 500 .A38 1985.

Gertler, J. J. Emersins Technologies in the Stratesic Arena: A Primer. Santa Monica: Rand, 1987.  
Report Lit. RAND-P-7319.

Gibson, James William. The Perfect War: Technowar in Vietnam. Boston: Atlantic Monthly, 1986.  
DS 558 .G53 1986.

Glennan, T. K. Jr. "Research and Development." Defense Manasement. ed. Stephen Enke. Englewood Cliffs: Prentice-Hall, 1967. 269-289.  
UA 23 .E6.

Gorn, Michael H. Harnessins the Genie: Science and Technology Forecasting for the Air Force, 1944-1986. Washington: Office of Air Force History; GPO, 1988.  
Gov Docs D 301.82/6: Sci 2.

Gruner, Glenn A. Clausewitz at Mach II - Has Classical Military Theory Kept Pace with Technolosv? Ft. Leavenworth: Army Command and General Staff College, 1993.  
Report Lit. ADA 274 111.

International Institute for Strategic Studies. New Technolosv and Western Security Policy. Hamden, CT: Archon, 1985.  
UF 530 .N49 1985.

Jackson, Robert. High-Tech Warfare: Air, Land, & Sea. New York: Sterling, 1992.  
UF 500 .J23 1992.

Jones, Rodney W., and Steven A. Hildreth. Modern Weapons and Third World Powers. Boulder: Westview, 1984.  
UF 535 .D44 J66 1984.

Kaldor, Mary. The Baroque Arsenal. New York: Hill and Wang, 1981.  
UF 530 .K34.

Kemp, Geoffrey, Robert L. Pfaltzgraff Jr., and Uri Ra'anana, eds.  
The Other Arms Race: New Technologies and Non-Nuclear Conflict.  
Lexington: Lexington, 1975.  
UF 520 .08.

Kross, Walter, and Earl F. Ziemke. Military Reform: The High-Tech Debate in Tactical Air Forces. Washington: National Defense U., 1985.  
Gov Docs D5.402:M59/2.

Lee, R. G., et al. Guided Weapons. London; Washington: Brassey's, 1988.  
UGK 1031 .L479 1988.

Long, Franklin A., and Judith Reppy. The Genesis of New Weapons: Decision Making for Military R & D. New York: Pergamon, 1980.  
U 393.5 .G46 1980.

Macdonald, Brian, ed. War in the Eighties: Men Against High Tech. Toronto: Canadian Inst. of Strategic Studies, 1983.  
U 102 .W28 1983.

Macksey, Kenneth, and Gary B. Griffin. Technology in War: The Impact of Science on Weapon Development and Modern Battle. New York: Prentice, 1986.  
UF 530 .M23 1986.

Margiotta, Franklin D., and Ralph Sanders, eds. Technology, Strategy, and National Security. Washington: National Defense UP, 1985.  
Gov Docs D5.405:T22.

Mazaar, Michael J., Jeffrey Shaffer, and Benjamin Edrington. The Military Technical Revolution: A Structural Framework. Washington: Center for Strategic and International Studies, 1993. U 104 .M39 1993.

Moodie, Michael. The Dreadful Fury: Advanced Military Technology and the Atlantic Alliance. New York: Praeger, 1989.  
UA 646.3 .M63 1989.

Neild, Robert. "The Implications of the Increased Accuracy of Non-Nuclear Weapons." The Foundations of Defensive Defence. ed. Anders Boserup and Robert Neild. New York: St. Martin's, 1990. 55-62.  
UA 646 .F68 1990.

New Technology and Western Security Policy. London: International Inst. for Strategic Studies, 1985.  
U 162 .A23 no. 199.

O'Neill, Robert, ed. New Technology and Western Security Policy. Hamden, CT: Archon, 1985.  
UF 530 .N49 1985.

Perry, Robert. The Interaction of Technology and Doctrine in the USAF. Santa Monica: Rand, 1979.  
Report Lit. RAND-P-6281.

Pokrovsky, G. I. Science and Technology in Contemporary War. trans. Raymond L. Garthoff. New York: Praeger, 1959.  
U 102 .P76.

Pugwash Symposium. Impact of New Technologies on the Arms Race. Cambridge: MIT, 1971.  
UA 10 .P97.

Rosen, Stephen P., and Matthew S. Klimow. Winning the Next War: Innovation and the Modern Military. Ithaca: Cornell UP, 1991.  
UA 23 .R758 1991.

Rubenson, David, and Anna Slomovic. The Impact of Missile Proliferation on U.S. Power Projection Capabilities. Santa Monica: Rand, 1990.  
Report Lit. RAND-N-1985-A/OSD; ADA 237 609.

Schaerf, Carlo, Brian Holden Reid, and David Carlton, eds. New Technologies and the Arms Race. New York: St. Martin's, 1989.  
UF 530 .N48 1989.

Schmahling, Elmar. "The Vulnerability of Surface Forces to Modern Stand-Off Weapons." The Foundations of Defensive Defence. ed. Anders Boserup and Robert Neild. New York: St. Martin's, 1990. 173-178.  
UA 646 .F68 1990.

Thee, Marek. Military Technology, Military Strategies, and the Arms Race. New York: St. Martin's, 1986.  
UF 530 .T52 1986.

Tirman, John, ed. The Militarization of High Technology. Cambridge: Ballinger, 1984.  
HD 9743 .U6 M53 1984.

Tizard, Henry T. "The Influence of Science on Strategy."  
Brassey's Annual: The Armed Forces Year-Book 1951. ed. H. G.  
Thursfield. New York; London: Macmillan; Clowes, 1951. 112-  
115.  
V 10 .B82 1951.

Tompkins, John S. The Weaponry of World War III: The Long Road  
Back from the Bomb. Garden City: Doubleday, 1966.  
U 104 .T66.

Tsipris, Kosta. Arsenal: Understanding Weapons in the Nuclear  
Age. New York: Simon & Schuster, 1983.  
U 264 .T78 1983.

Tsipris, Kosta, and Sheena Phillips. Annual Review of Military  
Research and Development. New York: Praeger, 1983-.  
U 393 .A72.

United States. Cong. Office of Technology Assessment. Ballistic  
Missile Defense Technologies. Washington: GPO, 1985.  
Gov Docs Y3.T22/2:2 M 69/2.

... The Defense Technology Base. Introduction & Overview: A  
Special Report of OTA's Assessment on Maintaining the  
Defense Technology Base. Washington: GPO, 1988.  
Gov Docs Y3.T22/2:2D.

Verdugo, Naomi, and Nehama E. Babin. The Impact of Advanced  
Technology on the U.S. Military. Alexandria: Army Research  
Institute for the Behavioral and Social Sciences, 1990.  
Report Lit. ADA 220 181.

Zakheim, Dov S. "Superpower Military Power Projection: New  
Technologies and Third World Conflict." Emerging Doctrines  
and Technologies: Implications for Global and Regional  
Political-Military Balances. ed. Jr. et al Robert L.  
Pfaltzgraff. Lexington: Heath, 1988. 235-250.  
U 42 .E48 1988.

Zaloga, Steven J. Target America: The Soviet Union and the  
Strategic Arms Race, 1945-1964. Novato, CA: Presidio, 1993.  
UA 770 .Z346 1993.

## Periodical Articles

Atkinson, James D. "Liddell Hart and Warfare of the Future." Military Affairs 29 (Winter 1965-66): 161-163.

Besch, Edwin W. "How the Technology Explosion is Changing World Power Relationships." Defense and Foreign Affairs Strategic Policy 19 (Mar. 1991): 8-11.

Bodnar, John W. "Military Technical Revolution: From Hardware to Information." Naval War College Review 46 (Summer 1993): 7-21.

Boyd, Stuart R. "Leadership and High Technology." Airpower Journal 3 (Winter 1990): 4-9.

Burke, John T. "Precision Weaponry: The Changing Nature of Modern Warfare." Army 24 (Mar. 1974): 12-16.

Davis, Jacquelyn K. "Technology and Strategy: Lessons and Issues for the 1990s." American Academy of Political and Social Science Annals 517 (Sept. 1991): 203-216.

Eshel, David. "Desert Storm: A Textbook Victory." Military Technology 15 (April 1991) : 28-30+.

Goldberg, Jay H. "Stealth: The New Approach to Weapons Design." Technology Review 92 (May/June 1989): 31-40.

Hammick, Murray, et al. "The Gulf War in Review." International Defense Review 24 (May 1991): 451-481.

Heinl, Robert D. Jr. "The Lonely Battlefield." Sea Power 20 (July 1977): 18-22.

Kendall, Frank. "Exploiting the Military Technical Revolution: A Concept for Joint Warfare." Strategic Review 20 (Spring 1992): 23-30.

Leitenberg, Milton. "The Dynamics of Military Technology Today." International Social Science Journal 25 (1973): 336-357.

Macedonia, Michael R. "Information Technology in Desert Storm." Military Review 72 (Oct. 1992): 34-41.

Pilat, Joseph F., and Paul C. White. "Technology and Strategy in a Changing World." Washington Quarterly 13 (Spring 1990): 79-91.

Reppy, Judith. "The Technological Imperative in Strategic Thought." Journal of Peace Research 27 (Feb. 1990): 101-106.

Rochlin, Gene I., and Chris C. Demchak. "Gulf War: Technological and Organizational Implications." Survivial 33 (May/June 1991): 260-273.

Simpson, John. "Technology and Political Choice in Future NATO Maritime Strategy." Orbis 17 (Spring 1973): 258-276.

Snow, Donald M. "High Technology and National Security: A Preliminary Assessment." Armed Forces and Society 17 (Winter 1991): 243-258.

Sorenson, David S. "Stealth Bombers, Advanced Cruise Missiles, and Superpower Deterrence Stability." Armed Forces and Society 16 (Spring 1990): 405-420.

Terraine, John. "Twenty-Five Years of Military History, 1945-1970." Royal United Service Institute for Defence Studies Journal 116 (Dec. 1971): 13-23.

Van Creveld, Martin. "High Technology and the Transformation of War." Royal United Services Institute for Defence Studies Journal 137 (Oct. 1992): 76-81.  
In 2 parts. Part 2: (Dec. 1992): 61-64.

Vernon, Raymond, and Ethan B. Kapstein. "National Needs, Global Resources." Daedalus 120 (Fall 1991): 1-22.

Welch, Thomas J. "Technology Change and Security." Washington Quarterly 13 (Spring 1990): 111-120.

York, Herbert F., and Greb G. Allen. "Military Research and Development: A Postwar History." Bulletin of the Atomic Scientists 33 (Jan 1977): 12-26.

**TECHNOLOGY AND WAR: SOCIAL AND POLITICAL ASPECTS**

**Books, Reports, and Government Documents**

Adams, James. Ensines of War: Merchants of Death and the New Arms Race. New York: Atlantic Monthly, 1990.  
UA 10 .A33 1990.

Armacost, Michael H. The Politics of Weapons Innovation: The Thor-Jupiter Controversy. New York: Columbia UP, 1969.  
UA 23 .A72.

Armytage, W. H. G. A Social History of Engineering. 4th ed. Boulder: Westview, 1976.  
TA 15 .A7 1976b.

Basiuk, Victor. Technology, World Politics, and American Policy. New York: Columbia UP, 1977.  
JX 1255 .B37.

Baxter, James Phinney 111. Scientists Against Time. Boston: Little, Brown, 1952.  
Q 127 .U6 B35.

Beard, Edmund. Developing the ICBM: A Study in Bureaucratic Politics. New York: Columbia UP, 1976.  
UGK 1012 .B36.

Betts, Richard K., Mark D. Mandeles, and Richard E. Jone. Cruise Missiles: Technology, Strategy, Politics. Washington: Brookings, 1981.  
UGK 1081 .C7 C95.

Binkin, Martin. Military Technology and Defense Mapower. Washington: Brookings, 1986.  
UB 323 .B567 1986.

Bond, Brian. War and Society in Europe, 1870-1970. New York: St. Martin's, 1983.  
D 396 .B63 1983.

Borton, Hugh. "War and the Rise of Industrialization in Japan." War as a Social Institution. ed. Jesse D. Clarkson and Thomas C. Cochran. New York: Columbia UP, 1941. 224-234.  
U 102 .A51.

Bower, Tom. The Paperclip Conspiracy: The Battle for the Spoils and Secrets of Nazi Germany. London: Paladin Grafton, 1987.  
D 810 .S2 B69 1988.

.... The Paperclip Conspiracy: The Hunt for the Nazi Scientists.  
Boston: Little, Brown, 1987.  
D 810 .S2 B69 1987.

Brodie, Bernard. "The Scientific Strategists." Scientists and National Policy-Making. ed. Robert Gilpin and Christopher Wright. New York; London: Columbia UP, 1964. 240-256.  
Q 127 .U6 G48.

Bush, Vannevar. Modern Arms and Free Men: A Discussion of the Role of Science in Preserving Democracy. New York: Simon & Schuster, 1949.  
U 102 .B97.

Buzan, Barry. An Introduction to Strategic Studies: Military Technology and International Relations. New York: St. Martin's, 1987.  
UA 11 .B84 1987.

Clark, Ronald W. The Rise of the Boffins. London: Phoenix House, 1962.  
D 810 .S2 C59.

Cooling, Benjamin Franklin, ed. War, Business, and World Military-Industrial Complexes. Port Washington: Kennikat, 1981.  
HD 9743 .A2 w37.

.... War, Business, and American Society: Historical Perspectives on the Military-Industrial Complex. Port Washington: Kennikat, 1977.  
HC 110 .D4 W34.

Crowther, J. G., and R. Whiddington. Science at War. New York: Philosophical Library, 1948.  
Q 127 .G7 C95.

Delbrück, Hans. History of the Art of War Within the Framework of Political History. Westport, CT: Greenwood, 1985.  
U 27 .D34213 1975 v.4.

Dupre, J. Stefan, and Sanford A. Lakoff. Science and the Nation: Policy and Politics. Englewood Cliffs: Prentice-Hall, 1962.  
Q 127 .U6 D93.

Eggleston, Wilfred. Scientists at War. Toronto; New York: Oxford UP, 1950.  
D 810 .S2 E2.

Foerstel, Herbert N. Secret Science: Federal Control of American Science and Technology. Westport: Praeger, 1993.  
U 393 .F64 1993.

Franklin, Roger. The Defender: The Story of General Dynamics. New York: Harper & Row, 1986.  
HD 9743 .U8 G42 1986.

Garden, Timothy. The Technology Trap: Science and the Military. London; Washington: Brassey's, 1989.  
U 42 .G37 1989.

Gilpin, Robert. American Scientists and Nuclear Weapons Policy. Princeton: Princeton UP, 1962.  
UA 23 .G58.

Granger, John V. Technology and International Relations. San Francisco: Freeman, 1979.  
JX 1255 .G74.

Gray, Colin S. Weapons Don't Make War: Policy, Strategy, and Military Technology. Lawrence: UP of Kansas, 1993.  
UA 23 .G786 1993.

Gray, George W. Science at War. New York: Harper, 1943.  
U 104 .G77.

Hammond, Grant T. Plowshares into Swords: Arms Races in International Politics, 1840-1991. Columbia: U. of South Carolina, 1993.  
UA 10 .H36 1993.

Heiss, Klaus P. Long Term Projections of Political and Military Power. Princeton: Mathematica, 1973.  
CB 158 .H4 1973.

Hunt, Linda. Secret Agents: The United States Government, Nazi Scientists, and Project Paperclip, 1945 to 1990. New York: St. Martin's, 1991.  
D 810 .S2 H86 1991.

Kirk, William L. American Science and the US Military. Maxwell AFB: Air War College, 1971.  
UGB 907 .A42 4380.

Leslie, Stuart W. The Cold War and American Science: The Military-Industrial-Academic Complex at MIT and Stanford. New York: Columbia UP, 1993.  
U 393 .L385 1993.

MacKenzie, Donald. Inventing Accuracy: An Historical Sociology of Nuclear Missile Guidance. Cambridge: MIT, 1991.  
UGK 1031 .M156 1990.

Macleod, Roy, and Kay Macleod. "The Social Relations of Science and Technology 1914-1939." The Fontana Economic History of Europe, Vol. 5: The Twentieth Century-1. ed. Carlo M. Cipolla. New York: Harper, 1977. 301-363.  
HC 240 .F583 v. 5 pt.1.

Mansfield, Edwin. Defense, Science, and Public Policy. New York: Norton, 1968.  
UA 23 .M28.

Mitcham, Carl, Philip Siekevitch, and Barton C. Hacker. Ethical Issues Associated with Scientific and Technological Research for the Military. New York: NY Academy of Science, 1989.  
Q 11 .N5 v.577.

Nef, John. "Political, Technological, and Cultural Aspects of War." The Critique of War: Contemporary Philosophical Explorations. ed. Robert Ginsberg. Chicago: Regnery, 1969.  
120- 137.  
U 21 .C93.

... War and Human Progress: An Essay on the Rise of Industrial Civilization. Cambridge: Harvard UP, 1952.  
CB 481 .N38.

Parry, V. J., and M. E. Yapp, eds. War, Technology and Society in the Middle East. New York: Oxford UP, 1975.  
U 43 .N3 W3.

Postan, Michael M., Denys Hay, and John D. Scott. Design and Development of Weapons: Studies in Government and Industrial Organization. London: HMSO, 1964.  
UG 145 .P85.

Preston, Richard A., and Sydney F. Wise. Men in Arms: A History of Warfare and its Interrelationships with Western Society. 4th ed. New York: Holt, Rinehart, and Winston, 1979.  
D 25 .P7 1979.

Quester, George H. Offense and Defense in the International System. New Brunswick: Transaction 1988,  
JX 1318 .Q47 1988.

Reid, Robert W. Tongues of Conscience: Weapons Research and the Scientists' Dilemma. New York: Walker, 1969.  
Q 125 .R35.

Rosenbloom, Richard S. "The Transfer of Military Technology to Civilian Use." Technology in Western Civilization, Vol. 2: Technology in the Twentieth Century. ed. Melvin Kranzberg et al. New York: Oxford UP, 1967. 601-612. 2 vols.  
T 15 .T25 v. 2.

Samuels, Richard J. "Rich Nation, Strong Army:" National Security and the Technological Transformation of Japan. Ithaca; London: Cornell UP, 1994.  
UA 845 .S327 1994.

Sapolsky, Harvey M. The Polaris System Development: Bureaucratic and Programmatic Success in Government. Cambridge: Harvard UP, 1972.  
V 993 .S26.

Swain, Donald C. "Organization of Military Research." Technology in Western Civilization. Vol. 2: Technology in the Twentieth Century. ed. Melvin Kranzberg et al. New York: Oxford UP, 1967. 535-548. 2 vols.  
T 15 .T25 v. 2.

Thee, Marek. "Military Technology- A Driving Force Behind the Arms Race and an Impediment for Arms Control and Disarmament." Military Technology. Armaments Dynamics and Disarmament. ed. Hans Gunter Brauch. New York: St. Martin's, 1989. 39-64.  
JS 1984 .M49 1989.

United States. Cong. Committee on Armed Services. Subcommittee on Manpower and Personnel. Impact of Technology on Military Manpower Requirements. Readiness. and Operations. Hearing. Washington: GPO 1981.  
Gov Docs Y4.Ar5/3:T 22.

Wohlstetter, Albert. "Strategy and the Natural Scientists.'! Scientists and National Policy-Making". ed. Robert Gilpin and Christopher Wright. New York; London: Columbia UP, 1964.  
174-239. Q 127 .U6 G48.

Yarmolinsky, Adam. The Military Establishment: Its Impacts on American Society. New York: Harper, 1971.  
UA 23 .Y2.

Zuckerman, Solly. Scientists and War: The Impact of Science on Military and Civil Affairs. New York: Harper, 1967.  
Q 175 .Z9.

## Periodical Articles

- Brown, M. L. "The American Arms Industry and the Industrial Revolution." National Defense 66 (July/Aug. 1981): 41-48.
- Collins, Randall. "Does Modern Technology Change the Rules of Geopolitics?" Journal of Political and Military Sociology 9 (Fall 1981) : 163-177.
- Deshingkar, Giri. "Military Technology and the Quest for Self-Reliance: India and China." International Social Science Journal 35 (1983): 99-123.
- Forsberg, Randall. "Military R and D: A Worldwide Institution?" American Philosophical Society Proceedings 124 (Aug. 1980): 266- 270.
- Hacker, Barton C. "Imaginations in Thrall: The Social Psychology of Military Mechanization 1919-1939." Parameters 12 (Mar. 1982): 50-61.
- Kaldor, Mary. "The Weapons Succession Process." World Politics 38 (July 1986) : 577-595.
- Leavitt, William. "Technological Terror as National Policy." Air Force and Space Digest 44 (Oct. 1961): 63+.
- Rabi, I. I. "The Organization of Scientific Research for Defense." Academy of Political Science Proceedings 24 (May 1951): 70-75.
- Reinharz, Jehuda. "Science in the Service of Politics: The Case of Chaim Weizmann During the First World War," English Historical Review 100 (July 1985): 572-603.
- Richardson, J. G. "The Contract, Past and Future, Between Scientist and Soldier." International Social Science Journal 45 (Feb. 1993): 13-22.
- "Science and War." Impact of Science on Society 26 (Jan./April 1976) : 3-115.
- Tarr, David W. "Military Technology and the Policy Process." Western Political Quarterly 18 (Mar. 1965): 135-148.
- Ward, J. C. Jr. "Science and National Power." Armed Forces Chemical Journal 9 (Mar./April 1955): 10-14.
- "Weapons from Science: Civilization's Pitfall." Impact of Science on Society 31 (Jan./Mar. 1981): 3-131.

Wilson, David A. "Consequential Controversies." American Academy of Political and Social Science Annals 40 (March 1989): 40-57.

AIR WARFARE: GENERAL STUDIES

**Books, Reports, and Government Documents**

Beaver, Paul. World Naval Aviation. Coulsdon, Surry: Jane's, 1989.  
Ref VGH 21 .B4 1989.

Boylan, Bernard Lawrence. Development of the Long-Range Escort Fighter. USAF Historical Studies 136. Maxwell AFB: USAF Historical Div., Research Studies Inst., Air U., 1955.  
UGH 907 .H6 No. 136.

... The Development of the American Long Range Escort Fighter.  
Diss. : U. of Missouri, 1955.  
Shelved with unclassified microfilm.

Campbell, Christopher. Air Warfare: The Fourth Generation. New York: Arco, 1984.  
UGK 21 .C18 1984.

Cappelluti, Frank. The Life and Thought of Giulio Douhet. Diss. : Rutgers U., 1967.  
UGK 21 .D73z C24 1967.

Charlton, Lionel E. O. War from the Air: Past, Present, Future. London; New York: Nelson, 1935.  
UGK 21 .C48.

Clark, Ronald W. The Role of the Bomber. New York: Crowell, 1977.  
UGH 2155 .C59.

Corn, Joseph J. The Winsed Gospel: America's Romance with Aviation, 1900-1950. New York: Oxford UP, 1983.  
TLB 311 .C81 1983.

De Seversky, Alexander P. Air Power: Key to Survival. New York: Simon & Schuster, 1950.  
UGK 21 .D452.

Douhet, Giulio. The Command of the Air. Rome, Italy: Rivista Aeronautica, 1958.  
UGK 21 .D73 1958.

Eliot, George Fielding. Bombs Bursting in Air: The Influence of Air Power on International Relations. New York: Reynal and Hitchcock, 1939.  
UGK 21 .E4.

Emme, Eugene M. The Impact of Air Power: National Security and World Politics. New York: Van Nostrand, 1959.  
UGK 21 .E5.

Everett-Heath, E. J., et al. Military Helicopters. London; Washington: Brassey's, 1990.  
UGH 3121 .M56 1990.

Freney, Michael A. The Future of Military Aviation. Washington: Georgetown U., Ctr. for Strategic and Intl. Studies, 1984.  
UGB 3 .F87 1984.

Gibbs-Smith, Charles H. Aviation: An Historical Survey from its Origins to the End of World War II. London: HMSO, 1970.  
TLB 251 .G44a 1970.

Gilbert, Silvanus Taco. What Will Douhet Think of Next? An Analysis of the Impact of Stealth Technology on the Evolution of Strategic Bombing Doctrine. Maxwell AFB: Air University, 1993.  
UGH 2168 .G55 1993.

Gray, George W. Frontiers of Flight: The Story of NACA Research. New York: Knopf, 1948.  
TLD 75 .G77.

Gunston, Bill. Modern Air Combat: The Aircraft, Tactics and Weapons Employed in Aerial Warfare Today. London: Salamander, 1983.  
Oversize UGK 251 .G97 1983.

Hennessy, Juliette A. The United States Army Air Arm, April 1861 to April 1917. Maxwell AFB: USAF Historical Div., Research Studies Inst., Air U., 1958.  
UGB 907 .H6 No. 98.

Jane's All the World's Aircraft. London; New York: S. Low, Marston & Co. (etc.), 1909 to date.  
Ref TLD 451 .J3.

Kennett, Lee B. A History of Strategic Bombing. New York: Scribner, 1982.  
UGK 2007 .K36.

MacIsaac, David. Strategic Bombing in World War Two: The Story of the United States Strategic Bombing Survey. New York: Garland, 1976.  
D 785 .U573 M3.

Mason, R. A., ed. War in the Third Dimension: Essays in Contemporary Air Power. London; Washington: Brassey's, 1986.  
UGK 21 .W3 1986.

---. Air Power: An Overview of Roles. London: Brassey's, 1987.  
UGK 251 .M41 1987.

Middleton, Edgar. The Great War in the Air. London: Waverley,  
1920.  
4 vols.  
D 600 .M62.

Mitchell, William. Winged Defense: The Development and  
Possibilities of Modern Air Power- Economic and Military.  
New York: Putnam's, 1925.  
UGK 21 .M68.

Morrow, John H. Jr. The Great War in the Air: Military Aviation  
from 1909 to 1921. Washington: Smithsonian, 1993.  
D 600 .M565 1993.

Parkinson, Russell J. Politics, Patents and Planes, Military  
Aeronautics in the United States, 1863-1907. n.p.; n.p.,  
1963.  
UGB 5 .P24.

Pierce, Watson O. Air War: Its Psychological, Technical and  
Social Implications. New York: Modern Age, 1939.  
Gimbel Coll. UGK 21 .P61 1939.

---. Air War: Its Technical and Social Aspects. London: Watts,  
1937.  
UGK 21 .P61.

Price, Alfred. Aircraft versus Submarine: The Evolution of the  
Anti-Submarine Aircraft. 1912 to 1980. London: Jane's, 1980.  
V 214 .P68 1980.

Quester, George H. Deterrence Before Hiroshima: The Airpower  
Background of Modern Strategy. New York: Wiley, 1966.  
U 162.6 .Q4.

Roland, Alex. Model Research: The National Advisory Committee for  
Aeronautics, 1915-1958. Washington: NASA, 1985.  
Gov Docs NAS 1.21:4103.

Sawers, David, and Ronald Miller. The Technical Development of  
Modern Aviation. London: Routledge, 1968.  
TLD 711 .M65.

Spaight, James M. Air Power in the Next War. London: Bles, 1938.  
UGK 21 .S73.

---. The Beginnings of Organised Air Power: A Historical Study.  
London; New York: Longmans, 1927.  
UGH 21 .S73.

Walker, Percy B. Early Aviation at Farnborough: The History of the Royal Aircraft Establishment. London: MacDonald, 1971.  
TLB 319 .F2 W18.

## AIR WARFARE: GENERAL STUDIES

### Periodical Articles

Driscoll, John J. "Impact of Weapons Technology on Air Warfare, 1941-1945." Airpower Historian 6 (Jan. 1959): 28-38.

Earle, Edward Mead. "The Influence of Air Power Upon History!!" Yale Review 35 (June 1946): 577-593

Futrell, Robert E. "Airpower Lessons of World War II." Air Force and Space Digest 48 (Sept. 1965): 42-50+.

Hallion, Richard. "Doctrine, Technology, and Air Warfare: A Late Twentieth-Century Perspective." Airpower Journal 1 (Fall 1987): 16-27.

Johnston, Herbert W. "Air Force Fighters: Simple or Complex?" Air University Review 34 (May/June 1983): 24-35.

Krauskopf, Robert W. "The Army and the Strategic Bomber 1930-1939." Military Affairs 22 (Summer 1958): 83-94.  
Part 2: Winter 1958:208-215.

Mitchell, William. "The Bombing of the Battleships." Airpower Historian 4 (April 1957): 51-65.

Mrozek, Donald J. "The Limits of Innovation: Aspects of Air Power in Vietnam." Air University Review 36 (Jan.-Feb. 1985): 58-71.

AIR WARFARE: AIRCRAFT, ARMAMENT, AND PROPULSION

Books, Reports and Government Documents

Ball, Robert E. The Fundamentals of Aircraft Combat Survivability Analysis and Design. New York: American Inst. of Aeronautics and Astronautics, 1985.  
UGH 2129 .B18 1985.

Bonner, Otis L. Tactical Fisher Tasks and Basic Desism Requirements. Maxwell AFB: Air War College, 1972.  
UGB 907 .A42 4515.

Grahame-White, Claude. The Aeroplane in War. London: Laurie, 1912.  
Spec. Coll. UGH 2151 .G74.

Hunecke, Klaus. Modern Combat Aircraft Desism. Annapolis: Naval Inst., 1987.  
UGH 2163 .H88 1987.

... . Modern Combat Aircraft Design. Annapolis: Naval Inst., 1987.  
UGH 2163 .H88 1987.

Loening, Grover C. Military Aeroplanes: An Explanatory Consideration of Their Characteristics, Performances, Construction, Maintenance and Operation. Boston: Best, 1918.  
Spec. Coll. UGH 2151 .L82 1918.

Schlaifer, Robert, and S. D. Heron. Development of Aircraft Ensines...: Development of Aviation Fuels...: Two Studies of Relations Between Government and Business. Elmsford: Maxwell Reprint, 1970.  
TLE 27 .S33.

Setright, L. J. K. The Power to Fly: The Development of the Piston Engine in Aviation. London: Allen & Unwin, 1971.  
TLE 22 .S49.

Taylor, C. Fayette. Aircraft Propulsion: A Review of the Evolution of Aircraft Piston Ensines. Washington: Smithsonian Inst., 1971.  
TLE 22 .T23.

Whitford, Ray. Design for Air Combat. London; New York: Jane's, 1987.  
UGH 2163 .W59 1987.

Woodman, Harry. Early Aircraft Armament: The Aeroplane and the Gun up to 1918. Washington: Smithsonian, 1989.  
UGK 821 .W65 1989.

**LAND WARFARE: GENERAL STUDIES**

**Books, Reports, and Government Documents**

Bellamy, Chris. The Evolution of Modern Land Warfare: Theory and Practice. London; New York: Routledge, 1990.  
U 41 .B45 1990.

Bruce, Robert V. Lincoln and the Tools of War. Indianapolis: Bobbs-Merrill, 1956.  
E 491 .B88.

Jane's Amour and Artillery. New York: Watts, 1974 to date.  
Ref UG 446.5 .J292.

Paxson, E. W., et al. Interactions Between Tactics and Technology in Ground Warfare. Santa Monica: RAND, 1979.  
Report Lit. ADA 067 283; RAND-R-2377-ARPA.

Worley, Marvin L. A Digest of New Developments in Army Weadons. Tactics, Orsanization, and Equipment. Harrisburg: Military Service, 1958.  
UA 25 .W92.

### **Periodical Articles**

- Anderson, Gary W. "Finding Tactics to Match Technology." Marine Corps Gazette 66 (Feb. 1982): 19-22.
- Hauser, William L. "Firepower Battlefield." Military Review 51 (Oct. 1971): 21-27.
- Liddell Hart, B. H. "The Ratio of Troops to Space." Military Review 40 (April 1960): 3-14.
- Owens, Charles E. "Technological Advances Increase Stress on the Battlefield." Marine Corps Gazette 72 (Aug. 1988): 75-76.
- Poynder, A. J. I. "The Defeat of Amour Through the Ages." Army Quarterly and Defence Journal 83 (Oct. 1961): 75-80.
- Raudzens, George. "Firepower Limitations in Modern Military History." Society for Army Historical Research, Journal 67 (Autumn 1989): 130-153.
- Roland, Alex. "Technology, Ground Warfare, and Strategy: The Paradox of American Experience." Journal of Military History 55 (Oct. 1991): 447-467.
- Weddle, Peter D. "The Soldier-Machine Connection." Military Review 62 (Jan. 1982): 60-68.

**LAND WARFARE: SMALL ARMS AND ARTILLERY**  
**Books, Reports, and Government Documents**

Armstrong, David A. Bullets and Bureaucrats: The Machine Gun and the United States Army, 1861-1916. Westport: Greenwood, 1982.  
UC 263 .A75.

Bailey, J. B. A. Field Artillery and Firepower. Philadelphia: Taylor & Francis, 1989.  
UF 400 .B35 1989.

Barber, John P., and F. Swift Hallock. "Modern Electric Rail Gun Technology." ICIASF '79 Record: International Congress on Instrumentation in Aerospace Simulation Facilities... New York: IEEE, 1979. 141-145.  
TLE 1500 .I6 1979.

Berk, Joseph. The Gatling Gun: 19th Century Machine Gun to 21st Century Vulcan. Boulder: Paladin, 1991.  
Oversize UF 620 .G3 B47 1991.

Chinn, George M. The Machine Gun. Washington: GPO, 1951-1955. 4 vols.  
UF 620 .A2 C53.

Courtney-Green, P. R. Ammunition for the Land Battle. London; Washington: Brassey's, 1991.  
UF 700 .C68 1991.

Dastrup, Boyd L. The Field Artillery: History and Sourcebook. Westport: Greenwood, 1994.  
UF 400 .D37 1994.

Davis, Carl L. Arming the Union: Small Arms in the Civil War. Port Washington: Kennikat, 1973.  
UF 523 .D38.

Downey, Fairfax. The Guns at Gettysburg. New York: McKay, 1958.  
E 475.53 .D74.

Eames, Henry E. The Rifle in War. Ft. Leavenworth: U. S. Cavalry Assn, 1909.  
UD 330 .E1.

Ellis, John. The Social History of the Machine Gun. Baltimore: Johns Hopkins UP, 1986.  
UF 620 .A2 E38 1986.

Ezell, Edward C. The AK-47 Story: Evolution of the Kalashnikov WeaDons. Harrisburg: Stackpole, 1986.  
UD 395 .A16 E97 1986.

Hatcher, Julian S. The Book of the Garand. reprint ed. Highland Park: Gun Room, 1993.  
UD 395 .G4 H3 1993.

Hogg, O. F. G. The Royal Arsenal: Its Background, Origin, and Subseauenct History. London: Oxford UP, 1963.  
2 vols.  
UF 545 .G7 H71.

Long, Duncan. Combat Rifles of the 21st Century: Futuristic Firearms for Tomorrow's Battlefields. Boulder: Paladin, 1990.  
UD 390 .L58 1990.

Pridham, C. H. B. Superiority of Fire: A Short History of Rifles and Machine-Guns. London; New York: Hutchinson's, 1945.  
UD 380 .P94.

Senich, Peter R. The German Assault Rifle, 1935-1945. Boulder: Paladin, 1987.  
UD 385 .G4 S46 1987.

Smith, Merritt Roe. Harpers Ferry Armory and the New Technolosv: The Challense of Chanse. Ithaca: Cornell UP, 1977.  
UF 543 .H37 S63.

Stevens, R. Blake. U.S. Rifle M14: From John Garand to the M21. Rev. 2nd ed. Toronto: Collector Grade, 1991.  
Oversize UD 395 .M14 S73 1991.

Stiefel, Ludwig. Gun Propulsion Technolosv. Washington: American Inst. of Aeronautics and Astronautics, 1988.  
UF 823 .G86 1988.

Thompson, Jim. Machine Guns: A Pictorial, Tactical, and Practical History. Boulder: Paladin, 1989.  
UF 620 .A2 T46 1989.

Wahl, Paul, and Donald R. Toppel. The Gatling Gun. New York: Arco, 1965.  
Oversize UF 620 .G3 W13.

Wise, Jennings C. The Lons Arm of Lee: The History of the Artillery of the Army of Northern Virginia. New York: Oxford UP, 1959.  
E 546.6 .W81 1959.

### **Periodical Articles**

Ames, Edward, and Nathan Rosenberg. "Enfield Arsenal in Theory and History." Economic Journal 78 (Dec. 1968): 827-842.

Beaumont, Roger A. "Superguns: Towards the Outer Limits of Ordnance." Royal United Services Institute for Defence Studies Journal 127 (Dec. 1982): 56-61.

Ezell, Edward C. "The Heckler & Koch G11: New Technology for the Rifleman." National Defense 67 (Oct. 1982): 46-49+.

Fabry, T. "The Role of the Modern Machine Gun." International Defense Review 1 (Feb. 1968): 68-69.

Livingston, Noyes B. "The Assault Rifle." Infantry 73 (Sept./Oct. 1983): 26-29.

Mosher, Walter D. "The Springfield Armory." Military Review 51 (Aug. 1971): 27-32.

Muller, Felix. "Caseless Ammunition Permits Quantum Jump in Rifle Technology." Armada International 7 (Jan./Feb. 1983): 24+.

Weller, Jac. "In an Age of Modern Sophisticated Weaponry, Where is Our 20th Century Rifle?" Infantry 63 (July/Aug. 1973): 12-17. saj.

**LAND WARFARE: MECHANIZATION- GENERAL STUDIES**

**Books, Reports, and Government Documents**

Bishop, Denis. Vehicles at War. S. Brunswick: Barnes, 1979.  
UE 15 .B53.

Fuller, J. F. C. Machine Warfare: An Inquiry into the Influence of Mechanics on the Art of War. Washington: Infantry Journal, 1943.  
UG 446.5 .F8 1943.

Haller, John S. Farmcarts to Fords: A History of the Military Ambulance, 1790-1925. Carbondale: Southern Illinois UP, 1992.  
UH 500 .H35 1992.

Hogg, Ian V. The Illustrated Encyclopedia of Military Vehicles. Englewood Cliffs: Prentice-Hall, 1980.  
Ref UG 615 .H63 1980.

Kutz, Charles R. War on Wheels: The Evolution of an Idea. Harrisburg: Military Service, 1940.  
UG 446.5 .K9.

Ogorkiewicz, Richard M. Armor: A History of Mechanized Forces. New York: Praeger, 1960.  
UG 446.5 .O35.

Portway, Donald. Science and Mechanisation in Land Warfare. New York: Chemical, 1939.  
U 102 .P85.

Raborg, Paul C. Mechanized Might: The Story of Mechanized Warfare. New York; London: Whittlesey; McGraw-Hill, 1942.  
UA 25 .R11.

**Periodical Articles**

Fuller, J. F. C. "The Introduction of Mechanical Warfare on Land and Its Possibilities in the Future." The Military Ensineer 13 (Mar./April 1921): 108-111.  
Reprinted: MILITARY ENGINEER 67 (Mar./April 1975) :89-92.  
mgj.

Stutler, Boyd B. "America's First Cars in Combat." American Legion 57 (June 1954): 16-17.  
mgj.

LAND WARFARE: TANKS AND OTHER ARMORED VEHICLES

Books, Reports, and Government Documents

Alexander, Arthur J. Armor Development in the Soviet Union and the United States. Santa Monica: Rand, 1976.  
Report Lit. RAND-R-1860-NA; ADA 031 100.

Baily, Charles M., et al. Faint Praise: American Tanks and Tank Destroyers During World War II. Hamden, CT: Archon, 1983.  
UG 446.5 .B23 1983.

Carver, Michael. The Apostles of Mobility: The Theory and Practice of Armored Warfare. New York: Holmes & Meier, 1979.  
UG 446.5 .C27 1979.

Ellis, Chris. Tanks of World War II. London: Octopus, 1981.  
Oversize UG 446.5 .E46 1981.

Fuller, J. F. C. Armored Warfare. Harrisburg: Military Service, 1955.  
UG 446.5 .F78 1955.

Gillie, Mildred H. Forging the Thunderbolt: A History of the Development of the Armored Force. Harrisburg: Military Service, 1947.  
UA 30 .G5.

Guderian, Heinz. Achtung-Panzer! The Development of Armoured Forces, Their Tactics and Operational Potential. trans. Christopher Duffy. London: Arms and Armour, 1992.  
UG 446.5 .G82 1992.

Hogg, Ian V. Armour in Conflict: The Design and Tactics of Armoured Fighting Vehicles. London: Jane's, 1980.  
UG 446.5 .H59.

Macksey, Kenneth. Tank versus Tank: The Illustrated Story of Armored Battlefield Conflict in the Twentieth Century. Topsfield, MA: Salem, 1988.  
UG 446.5 .M2249 1988.

---. The Tank Pioneers. London; New York: Jane's, 1981.  
UE 159 .M25 1981.

Macksey, Kenneth, and John H. Batchelor. Tank: A History of the Armoured Fighting Vehicle. London: MacDonald, 1970.  
UG 446.5 .M15.

- Ogorkiewicz, Richard M. Desisn and Development of Fighting Vehicles. Garden City: Doubleday, 1968.  
UG 446.5 .035d.
- . Technolosy of Tanks. Coulsdon, Surrey: Jane's, 1991. 2 vols.  
UG 446.5 .054 1991.
- Perrett, Bryan. Tank Warfare: Combat Development in World War 11. London: Arms and Armour, 1990.  
UG 446.5 .P46 1990.
- Senger und Etterlin, F. M. von. Die Deutschen Panzer, 1926-1945. 2nd. ed. Munchen: Lehmann, 1965.  
UG 446.5 S47d.
- Smithers, A. J. Rude Mechanicals: An Account of Tank Maturity Durins the Second World War. New York: Cooper; Hippocrene, 1987.  
UG 446.5 .S64 1987.
- Terry, T. W., et al. Fighting Vehicles. London; Washington: Brassey's, 1991.  
UG 446.5 .F54 1991.
- Wilson, Dale. Treat 'em Roush: The Birth of American Armor, 1917-20. Novato: Presidio, 1989.  
D 608 .W54 1989.
- Woollcombe, Robert. The first Tank Battle: Cambrai 1917. London: Barker, 1967.  
D 545 .C27 W91.
- Zaloga, Steve. Tank Attack: A Primer of Modern Tank Warfare. Osceola, WI: Motorbooks, 1991.  
UG 446.5 .Z332 1991.

### **Periodical Articles**

Bowers, Ray L. Jr. "Beginnings of Armored Warfare." Military Review 46 (Dec. 1966): 18-28.

Ciccarelli, John E. "America's Forgotten Tanker." Armor 74 (July/Aug. 1965): 20-23.

Dillard, Walter S. "Could the Tank Have Been the Decisive Factor in World War I?" Armor 76 (May/June 1967): 44-52.

Dodd, Norman L. "Technological Improvements in Main Battle Tanks." Pacific Defence Reporter 9 (Feb. 1983): 44-46+.

Evans, Kenneth A. "The Evolution of British Armor Through World War II." Armor 73 (Jan./Feb. 1964): 19-24.

Liddell Hart, B. H. "Tank Warfare - and its Future." Military Review 32 (Nov. 1952): 73-80.

Liddell Hart, B. H., and Heinz Guderian. "Role of the Tank in Ground Warfare." Armor 59 (Sept./Oct. 1950): 30-31.

Ogorkowicz, R. M. "The Evolution of Self-Propelled Guns." Military Review 31 (Oct. 1951): 102-109.

LAND WARFARE:: RAILWAYS

Books, Reports, and Government Documents

Abdill, George. Civil War Railroads. Seattle: Superior, 1961.  
E 491 .A12.

Bishop, Denis, and Keith Davis. Railways and War Before 1918. New York: Macmillan, 1972.  
UG 345 .B57.

Black, Robert C. The Railroads of the Confederacy. Chapel Hills: U. of North Carolina, 1952.  
E 545 .B62.

Carter, Ernest F. Railways in Wartime. London: Muller, 1964.  
TF 153 .C32.

Connor, William D. Military Railways. Washington: GPO, 1910.  
Spec Coll UG 345 .C75.

Farrington, S. Kip. Railroads at War. New York: Coward-McCann, 1944.  
TF 23 .F24.

Hines, Walker D. War History of American Railroads. New Haven; London: Yale UP; Oxford UP, 1928.  
HE 2751 .H66.

Meredith, Roy. Mr. Lincoln's Military Railroad: A Pictorial History of United States Civil War Railroads. New York: Norton, 1979.  
Oversize E 491 .M5 1979.

Pratt, Edwin A. The Rise of Rail-Power in War and Conquest, 1833-1914. Philadelphia; London: Lippincott; King, 1916.  
UC 310 .P61.

Thomas, Thomas H. "Armies and the Railway Revolution." War as a Social Institution. ed. Jesse D. Clarkson and Thomas C. Cochran. New York: Columbia UP, 1941. 88-94.  
U 102 .A51.

Turner, George E. Victory Rode the Rails: The Strategic Place of the Railroads in the Civil War. Indianapolis: Bobbs-Merrill, 1953.  
E 491 .T94.

Weber, Thomas. The Northern Railroads in the Civil War, 1861-1865. New York: King's Crown, 1952.  
E 491 .W37.

Westwood, John. Railways at War. San Diego: Howell-North, 1981.  
HE 1021 .W47 1981.

Periodical Articles

Reichmann, Carl. "The Use of Railroads in War." Journal of the Military Service Institution of the United States 10 (Nov. 1889): 592-612.

Sale, M. T. "The Construction of Military Railways During the Russo-Turkish War of 1877-78." Royal United Services Institute Journal 24 (1881): 174-180.

NAVAL WARFARE: GENERAL STUDIES

Books, Reports, and Government Documents

Brodie, Bernard. Sea Power in the Machine Age. Princeton:  
Princeton UP, 1943.  
V 25 .B7 1943

Canney, Donald L. The Old Steam Navy: The Ironclads, 1842-1885.  
Vol. 2. Annapolis: Naval Inst., 1993.  
2 vols.  
Oversize VA 55 .C28 1990 v. 2.

Cowburn, Philip. The Warship in History. New York: Macmillan,  
1965.  
V 750 .C68.

Duncan, Francis. Rickover and the Nuclear Navy: The Discipline of  
Technology. Annapolis: Naval Inst., 1990.  
V 63 .R54 D86 1990.

Evans, Michael. Amphibious Operations: The Projection of Sea  
Power Ashore. London; Washington: Brassey's, 1990.  
U 261 .E93 1990.

Isely, Jeter, and Philip A. Crowl. The U.S. Marines and  
Amphibious War: Its Theory, and its Practice in the Pacific.  
Princeton: Princeton UP, 1951.  
D 769.45 .I8.

Jane's Fighting Ships. London; New York: S. Low, Marston, 1905 to  
date.  
Ref VA 40 .J3.

King, Randolph W., Prescott Palmer, and Bruce I. Meader, eds.  
Naval Engineering and American Seapower. Baltimore: Nautical  
& Aviation, 1989.  
VA 55 .N24 1989.

Polmar, Norman, and Peter B. Mersky. Amphibious Warfare: An  
Illustrated History. New York: Blandford, 1988.  
U 261 .P65 1988.

Ranft, Bryan, ed. Technical Change and British Naval Policy,  
1860-1939. London: Hodder and Stoughton, 1977.  
VA 454 .T4.

Salkovitz, Edward I., ed. Science, Technology, and the Modern Navy: Thirtieth Anniversary, 1946-1976. Arlington: Office of Naval Research, 1976.  
Gov Docs D210.2:Sci2/4/946-76.

Sharrett, Patrick J. The Evolution of Naval Warfare Technology and the Impact of Space Systems. Monterey: Naval Postgraduate School, 1987.  
Master's thesis.  
Report Lit. ADA 186 900.

Sloan, Edward William III. Benjamin Franklin Isherwood, Naval Engineer: The Years as Engineer in Chief, 1861-1869. Annapolis: US Naval Inst., 1966.  
VM 140 .I79s.

### **Periodical Articles**

Brooks, Leon P. Jr. "The Impact of Technology on Fleet Structure." U. S. Naval Inst. Proceedinss 107 (Feb. 1981): 46- 52.

Brooks, Linton F. "Tactical Nuclear Weapons: The Forgotten Facet of Naval Warfare." US Naval Inst. Proceeding 106 (Jan. 1980): 28-33.

Conley, D. "The Impact of Technological Change upon Naval Policy." Royal United Service Institute for Defence Studies Journal 133 (Summer 1988): 35-40.

Hattendorf, John B. "Technology and Strategy: A Study in the Professional Thought of the U.S. Navy, 1900-1916." Naval War Collese Review 24 (Nov. 1971): 25- 48.

Lauteschlager, Karl. "Technology and the Evolution of Naval Warfare." International Security 8 (Fall 1983): 3-51.

Leopold, Reuven. "Technologically Improved Warships: A Partial Answer to a Reduced Fleet." International Security 2 (Spring 1978): 185-194.

Maurer, John H. "Fuel and the Battle Fleet: Coal, Oil, and American Naval Strategy, 1898-1925." Naval War Collese Review 34 (Nov./Dec. 1981): 60-77.

Olliver-Bellasis, R. "Development of Warships Since 1900." Military Review 31 (Jan. 1952): 103-108.

NAVAL WARFARE: SURFACE SHIPS

Books, Reports, and Government Documents

Amadon, George F. Rise of the Ironclads. Missoula: Pictorial Histories, 1988.  
Oversize E 591 .A48 1988.

Baxter, James P. The Introduction of the Ironclad Warship. Cambridge: Harvard UP, 1933.  
V 799 .B3.

Breyer, Siegfried. Battleships and Battle Cruisers. 1905-1970; with 922 Side Elevations, Deck Plans, Cross Sections, and Detail Sketches, Including an Introduction: Historical Development of the Capital Ship. Garden City: Doubleday, 1973.  
V 765 .B6813.

Burt, R. A. French Battleships, 1876-1946. London; New York: Arms & Amour, 1990.  
V 815.5 .F8 B87 1990.

Carrier Warfare. Alexandria: Time-Life, 1991.  
Oversize V 874 .C37 1991.

Conway's All the World's Fighting Ships, 1860-1905. New York: Mayflower, 1979.  
Oversize V 799 .C66 1979b.

Friedman, Norman. Battleship Design and Development. 1905-1945. New York: Mayflower, 1978.  
V 800 .F74.

---. Carrier Air Power. New York: Rutledge, 1981.  
Oversize VGB 3 .F91.

---. U.S. Cruisers: An Illustrated Design History. Annapolis: Naval Inst., 1984.  
Oversize V 820.3 .F75 1984.

---. U.S. Small Combatants, Including PT-Boats. Subchasers, and the Brown-Water Navy: An Illustrated Design History. Annapolis: Naval Inst., 1987.  
Oversize V 833 .F75 1987.

Gibbons, Tony. The Complete Encyclopedia of Battleships: A Technical Directory of Capital Ships from 1860 to the Present Day. New York: Crescent, 1983.  
Ref V 815 .G5 1983.

Holmes, Tony. World Super Carriers: Naval Air Power Today.  
London; Osceola, WI: Osprey, 1988.  
VGH 21 .H65 1988.

Jordan, John. An Illustrated Guide to Modern Naval Aviation and Aircraft Carriers. New York: Arco, 1983.  
Ref VGH 21 .J82 1983.

Kneale, James E. VTOL Aircraft and Their Possible Impact on Attack Carriers and Attack Carrier Operations. Maxwell AFB: Air War College, 1970.  
UGB 907 .S42 4044.

Layman, R. D. Before the Aircraft Carrier: The Development of Aviation Vessels, 1849-1922. Annapolis: Naval Inst., 1989.  
V 874 .L38 1989.

MacBride, Robert. Civil War Ironclads: The Dawn of Naval Armor. Philadelphia: Chilton, 1962.  
E 591 .M12.

Melton, Maurice. The Confederate Ironclads. South Brunswick, NJ: Yoseloff, 1968.  
E 596 .M52.

Parkes, Oscar. British Battleships, "Warrior" 1860 to "Vanguard" 1950: A History of Design Construction and Armament. rev. ed. London: Seeley, 1970.  
Lib. also has 1957 ed.  
VA 454 .P28 1970.

Pears, Randolph. British Battleships, 1892-1957: The Great Days of the Fleets. London: Putnam, 1957.  
VA 454 .P36.

Raven, Alan, and John Roberts. British Battleships of World War Two: The Development and Technical History of the Royal Navy's Battleships and Battlecruisers from 1911 to 1945. London: Arms and Armour, 1976.  
V 800 .R38 1976b.

Silverstone, Paul H. Warships of the Civil War Navies. Annapolis: Naval Inst., 1989.  
VA 61 .S573 1989.

Still, William N. Iron Afloat: The Story of the Confederate Armorclads. Nashville: Vanderbilt UP, 1971.  
E 596 .S85.

**Periodical Articles**

Hess, Earl J. "Northern Response to the Ironclad: A Prospect for the Study of Military Technology." Civil War History 31 (June 1985) : 126-143.

Milligan, John D. "From Theory to Application: The Emergence of the American Ironclad War Vessel." Military Affairs 48 (July 1984): 126-132.

**NAVAL WARFARE: SUBMARINES**

**Books, Reports, and Government Documents**

Abbot, Henry L. Beginning of Modern Submarine Warfare Under Captain Lieutenant David Bushnell. Hamden, CT: Archon, 1966.  
V 858 .A12.

Alden, John D. The Fleet Submarine in the U.S. Navy: A Design and Construction History. Annapolis: Naval Inst., 1979.  
Oversize V 858 .A74.

Breemer, Jan S. Soviet Submarines: Design, Development and Tactics. Surrey: Jane's, 1989.  
V 859 .S65 B8 1989.

Carpenter, Dorr. Submarines of the Imperial Japanese Navy.  
Annapolis: Naval Inst., 1986.  
V 859 .J3 C37 1986.

Clancy, Tom. Submarine: A Guided Tour Inside a Nuclear Warship.  
New York: Berkley, 1993.  
V 857.5 .C52 1993.

Compton-Hall, Richard. Submarine Versus Submarine: The Tactics and Technology of Underwater Confrontation. New York: Orion, 1988.  
Ref V 214.5 .C65 1988.

... Submarine Boats: The Beginnings of Underwater Warfare. New York: Arco, 1984.  
V 857 .C65 1984.

... Submarine Warfare: Monsters & Midgets. Poole, Dorset; New York: Blandford, 1985.  
V 857 .C66 1985.

Cross, Wilbur. Challengers of the Deep: The Story of Submarines.  
New York: Sloane, 1959.  
V 210 .C75.

Friedman, Norman. Submarine Design and Development. Annapolis: Naval Inst., 1984.  
Oversize VM 365 .F76 1984.

Garrett, Richard. Submarines. Boston: Little, Brown, 1977.  
Oversize V 857 .G34 1977b.

Hezlet, Arthur R. The Submarine and Sea Power. New York: Stein & Day, 1967.  
V 857 .H62.

Humble, Richard. Submarines: The Illustrated History. n.p.: Basinghall, 1981.  
V 857 .H84 1981.

Hutcheon, Wallace. Robert Fulton, Pioneer of Undersea Warfare. Annapolis: Naval Inst., 1981.  
VM 140 .F9 H87.

Jameson, William. The Most Formidable Thins: The Story of the Submarine from its Earliest Days to the End of World War I. London: Hart-Davis, 1965.  
V 857 .J3.

Kaufman, Yogi. Sharks of Steel. Annapolis: Naval Inst., 1993.  
Oversize V 857 .K28 1993.

Kuenne, Robert E. The Attack Submarine: A Study in Stratessv. New Haven: Yale UP, 1965.  
V 210 .K8.

Middleton, Drew. Submarine, the Ultimate Naval Weapon: Its Past, Present, & Future. Chicago: Playboy, 1976.  
V 210 .M52.

Morris, Richard K. John P. Holland, 1841-1914, Inventor of the Modern Submarine. Annapolis: Naval Inst., 1966.  
VM 140 .H87m.

Perry, Milton F. Infernal Machines: The Story of Confederate Submarine and Mine Warfare. Baton Rouge: Louisiana State UP, 1965. E 596 .P4.

Polmar, Norman. The American Submarine. Annapolis: Nautical & Aviation, 1983.  
V 858 .P59 1983.

---. Submarines of the Russian and Soviet Navies, 1718-1990. Annapolis: Naval Inst., 1991.  
Oversize V 859 .S65 P64 1991.

Preston, Antony. Submarines. New York: St. Martin's, 1982.  
Oversize V 857 .P727 1977b.

Roland, Alex. Underwater Warfare in the Age of Sail. Bloomington: Indiana UP, 1978.  
V 210 .R64 1978.

Rossler, Eberhard. The U-Boat: The Evolution and Technical History of German Submarines. Annapolis: Naval Inst., 1981.  
VM 365 .R6413.

Sotnikov, Ivan M. Aviation versus Submarines. Wright-Patterson AFB: Foreign Technology Division, 1971.  
V 214 .S71; Report Lit. AD 723 558.

United States. Cong. Senate. Committee on Armed Services.  
Subcommittee on Seapower and Strategic and Critical Materials. Advanced Submarine Technolosy and Antisubmarine Warfare: Hearing. Washington: GPO, 1990.  
Gov Docs Y4.Ar5/2a:989-90/40.

Watts, Anthony J., ed. Jane's Underwater Warfare Svstems. Alexandria: Jane's, 1991 to date.  
Ref V 214 .J36.

### **Periodical Articles**

McLean, Douglas M. "Confronting Technological and Tactical Change: Allied Antisubmarine Warfare in the Last Year of the Battle of the Atlantic." Naval War College Review 47 (Winter 1994): 87-104.

Milner, Marc. "The Dawn of Modern Anti-Submarine Warfare: Allied Responses to the U-Boats, 1944-45." Royal United Service Institute for Defence Studies Journal 134 (Spring 1989): 61-68.

"A Treasury of Early Submarines." U. S. Naval Institute Proceedings 93 (May 1967): 97-114.

**NAVAL WARFARE: ARMAMENT**

Arnett, Eric H. Sea-Launched Cruise Missiles and U.S. Security.  
New York: Praeger, 1991.  
**V 990 .A76 1991.**

Friedman, Norman. The Naval Institute Guide to World Naval Weapons Systems. Annapolis: Naval Inst., 1989.  
Ref VF 346 .F75 1989.

Gray, Edwin. The Devil's Device: Robert Whitehead and the History of the Torpedo. Annapolis: US Naval Inst., 1991.  
**V 855 .W5 G7 1991.**

Hackmann, Willem, and David K. Allison. Seek and Strike: Sonar, Anti-Submarine Warfare and the Royal Navy, 1914-1954. London: HMSO, 1984.  
**V 214 .H33 1984b.**

Richardson, Doug. Naval Armament. London; New York: Jane's, 1982.  
**V 950 .R5.**

**NUCLEAR WEAPONS AND WARFARE**  
**Books, Reports, and Government Documents**

- Brodie, Bernard. Escalation and the Nuclear Option. Princeton: Princeton UP, 1966.  
UF 767 .B73.
- ... . The Absolute Weapon: Atomic Power and World Order. New York: Harcourt, Brace, 1946.  
UF 767 .B86.
- Brown, Anthony Cave, and Charles B. MacDonald, eds. The Secret History of the Atomic Bomb. New York: Dial; Wade, 1977.  
QC 773.3 .U5 S44.
- Cochran, Thomas B. Nuclear Warmons Databook. Cambridge: Ballinger, 1984. 4 vols.  
Ref U 264 .C6 1984.
- Eubank, Keith. The Bomb. Malabar, FL: Krieger, 1991.  
U 264 .E83 1991.
- Goldschmidt, Bertrand, and Bernard T. Feld. Atomic Rivals. New Brunswick: Rutgers UP, 1990.  
QC 773 .G6413 1990.
- Griffith, Franklin, and John C. Polyani, eds. The Dangers of Nuclear War: A Pugwash Symposium. Toronto; Buffalo: U. of Toronto, 1979.  
JX 1974.7 .D35.
- Groves, Leslie R. Now It Can be Told: The Story of the Manhattan Project. New York: Harper, 1962.  
QC 773 .G88.
- Hewlett, Richard G., and Oscar E. Anderson. A History of the United States Atomic Energy Commission. Vol. 1: The New World, 1939-1946. Washington: The Commission, 1972-.  
HD 9568 .U58 H48.
- Irving, David. The German Atomic Bomb: The History of Nuclear Research in Nazi Germany. New York: Simon & Schuster, 1968.  
QC 773 .I72.
- Kaplan, Fred M. The Wizards of Armageddon. New York: Simon & Schuster, 1983.  
U 263 .K36 1983.

Kissinger, Henry. Nuclear Weapons and Foreign Policy. New ed.  
Boulder: Westview, 1984.  
UA 23 .K49 1984.

Kolkowicz, Roman, ed. The Logic of Nuclear Terror. Boston: Allen  
& Unwin, 1987.  
U 263 .L64 1987.

Komer, R. W. Strategic Impact of Abolishing Nuclear Weapons.  
Santa Monica: Rand, 1987.  
Report Lit. RAND-P-7358.

Kramish, Arnold. Atomic Energy in the Soviet Union. Stanford:  
Stanford UP, 1959.  
QC 773.3 .R9 K8.

McNamara, Robert S. Blundering into Disaster: Surviving the First  
Century of the Nuclear Age. New York: Pantheon, 1986.  
UA 10 .M39 1986.

Powers, Thomas. Heisenberg's War: The Secret History of the  
German Bomb. New York: Knopf, 1993.  
QC 16 .H35 P69 1993.

Quester, George H. The Future of Nuclear Deterrence. Lexington:  
Lexington, 1986.  
U 162.6 .Q44 1986.

Smyth, Henry DeWolf. Atomic Energy for Military Purposes: The  
Official Report on the Development of the Atomic Bomb Under  
the Auspices of the United States Government, 1940-1945.  
Princeton: Princeton UP, 1945.  
Library also has 1978 reprint: QC 773.3 .U5 S67 1978.  
QC 773 .S66.

Tsipris, Kosta. "Third-Generation Nuclear Weapons." Military  
Technology, Armaments Dynamics and Disarmament. ed. Hans  
Gunter Brauch. New York: St. Martin's, 1989. 67-91.  
JX 1974 .M49 1989.

United States. Cong. Senate. Committee on Foreign Relations.  
United States Foreign Policy. Developments in Military  
Technology and Their Impact on United States Strategy and  
Foreign Policy. Washington: GPO, 1959.  
Gov Docs Y4.F76/2:F 76/12/no. 8.

Wilcox, Robert K. Japan's Secret War. New York: Morrow, 1985.  
QC 773.3 .J3 W55 1985.

York, Herbert F. The Advisors: Oppenheimer, Teller, and the  
Superbomb. San Francisco: Freeman, 1976.  
UF 767 .Y67.

### Periodical Articles

Berkowitz, Bruce D. "Technological Progress, Strategic Weapons, and American Nuclear Policy." Orbis 29 (Summer 1985): 241-258.

Bidwell, Shelford. "The Use of Small Nuclear Weapons in War on Land." Army Quarterly & Defence Journal 101 (April 1971): 295-306.

Franklin, H. Bruce. "Fatal Fiction: A Weapon to End All Wars." Bulletin of the Atomic Scientists 45 (Nov. 1989): 18-25.

Gray, Colin S. "Nuclear Strategy: The Case for a Theory of Victory." International Security 4 (Summer 1979): 54-87.

McNamara, Robert. "The Military Role of Nuclear Weapons: Perceptions and Misperceptions." Foreign Affairs 62 (Fall 1983): 59-80.

Munnery, J. P. "Nuclear Survivability of Military Equipment." International Defense Review 12 (1979): 1107-1110.

Nusbaum, Keith C. "Conventional versus Nuclear Firepower." Military Review 41 (May 1961): 91-96.

Ullman, Richard. "No First Use of Nuclear Weapons." Foreign Affairs 50 (July 1972): 669-683.

Vik, Tor. "The Atomic Weapon's Meaning to Warfare!!" Military Review 36 (Dec. 1956): 73-83.

Walker, Mark. "Heisenberg, Goudsmit, and the German Atomic Bomb." Physics Today 42 (Dec. 1989): 52-60.

## SPACE WARFARE

### Books, Reports, and Government Documents

America in Space: Pioneers or Aggressors? New York: Facts on File, 1986.  
Oversize TLE 1037 .A511 1986.

Ballistic Missile Defense. Washington: Brookings, 1984.  
UGK 1012 .B19 1984.

Barker, Raymond H. Space Control: A National Imperative. Maxwell AFB: Air War College, 1988.  
UGB 907 .A433 88-B255.

Brown, Neville. New Strategy Through Space. Leicester, England; New York: Leicester UP, 1990.  
UGK 1012 .B879 1990.

Canan, James W. War in Space. New York: Harper & Row, 1982.  
UGK 1012 .C21.

Chilcott, Gary A. Space Doctrine. Maxwell AFB: Air War College, 1990.  
UGB 907 .A433 90-C535.

DeVorkin, David H. Science with a Vengeance: How the Military Created the US Space Sciences after World War II. New York: Springer, 1992.  
UGK 1012 .D48 1992.

Downey, Arthur J. The Emerging Role of the US Army in Space. Washington: National Defense UP, 1985.  
Gov Docs D 5.409:Sp1.

Golovine, Michael N. Conflict in Space: A Pattern of War in a New Dimension. London: Temple, 1962.  
UGK 1012 .G62.

Grabbe, Crockett L. Space Weapons and the Strategic Defense Initiative. Ames: Iowa State UP, 1991.  
UGK 1012 .G71 1991.

Graham, Daniel O. High Frontier: A New National Strategy. Washington: High Frontier, 1982.  
UGK 1012 .G73.

Grey, Jerry. Beachheads in Space: A Blueprint for the Future. New York: Macmillan, 1983.  
TLE 1031 .G841 1983.

Heuser, Gary E. The Army and Military in Space. Carlisle Barracks: Army War College, 1993.  
Report Lit. ADA 264581.

Hobbs, David. An Illustrated Guide to Space Warfare. New York: Prentice Hall, 1986.  
REF UGK 1012 .H68 1986.

Jasani, Bhupendra. Countdown to Space War. London; Philadelphia: Taylor & Francis, 1984.  
UGK 1012 .J39 1984.

Karas, Thomas H. The New High Ground: Systems and Weapons of Space Age War. New York: Simon & Schuster, 1983.  
UGK 1012 .K18 1983.

Laser Weapons in Space: Policy and Doctrine. Boulder: Westview, 1983.  
UGK 1012 .L33 .

Lee, Christopher. War in Space. London: Hamilton, 1986.  
UGK 1012 .L47 1986.

Linenthal, Edward T. Symbolic Defense: The Cultural Significance of the Strategic Defense Initiative. Urbana: U. of Illinois, 1989.  
UGK 1012 .L56 1989.

Lupton, David E. On Space Warfare: A Space Power Doctrine. Maxwell AFB: Air UP, 1988.  
Gov Docs D301.26/6:S.

Macvey, John W. Space Weapons/Space War. New York: Stein & Day, 1979.  
UGK 81 .M17 .

Manno, Jack. Arming the Heavens: The Hidden Military Agenda for Space, 1945-1955. New York: Dodd, Mead, 1984.  
UGK 1012 .M28 1984.

McCrery, James. "The Soviet Union and Space Doctrine: Input of New Technologies." Emerging Doctrines and Technologies: Implications for Global and Regional Political-Military Balances. ed. Robert L. Pfaltzgraff Jr., et al. Lexington: Heath, 1988. 123-128.  
U 42 .E48 1988.

The Militarisation of Space. Brighton, Sussex; Boulder: Wheatsheaf; Rienner, 1987.  
UGK 1012 .M635 1987.

Military Space. London; Washington: Brassey's, 1990.  
UGK 1012 .M554 1990.

Military Space Doctrine: The Great Frontier: A Book of Readings for the USAFA Military Space Doctrine Symposium, 1-3 April 1981. USAF Academy: Dept. of Astronautics & Computer Sci., USAFA, 1981? UGK 1012 .M64 v. 1.

Myers, Kenneth A. Organizing for Military Space Operations. Maxwell AFB: Air War College, 1986.  
UGB 907 .A433 86-161.

National Interests and the Military Use of Space. Cambridge: Ballinger, 1984.  
UGK 1012 .N27 1984.

Ritchie, David. Spacewar. New York: Atheneum, 1982.  
UGK 1012 .R59.

Rogers, Paul. "The Transformation of War: The Real Implications of the SDI." Military Technology, Armaments Dynamics and Disarmament. ed. Hans Gunter Brauch. New York: St. Martin's, 1989. 215-227.  
JX 1974 .M49 1989.

Shattuck, Julian W. Space in Warfare. Maxwell AFB: Air War College, 1989.  
UGB 907 .A433 89-S533.

Space Issues Symposium (Air War College, 1988). Building a Consensus Toward Space: Proceedings. Maxwell AFB: Air UP, 1990.  
Gov Docs D 301.26/6:S.

Stares, Paul B. Space and National Security. Washington: Brookings, 1987.  
UGK 1012 .S792 1987.

---. The Militarization of Space: U. S. Policy, 1945-1984. Ithaca: Cornell UP, 1985.  
UGK 1012 .S79 1985.

Swan, Peter A., comp. Military Space Doctrine: The Great Frontier. A Book of Readings for the USAFA Military Space Doctrine Symposium, 1-3 April 1981. USAF Academy: Dept. of Astronautics and Computer Science, 1981? 4 vols.  
UGK 1012 .M64.

Teller, Edward. Better a Shield Than a Sword: Perspectives on Defense and Technology. New York: Free Press, 1987.  
UA 23 .T30 1987.

United States. Cong. Office of Technology Assessment. Ballistic Missile Defense Technologies. Washington: GPO, 1985.  
Gov Docs y3.T22/2:2M 69/2.

York, Herbert F., and Sanford Lakoff. A Shield in Space? Technology, Politics, and the Strategic Defense Initiative: How the Reagan Administration Set Out to Make Nuclear Weapons "Impotent and Obsolete" and Succumbed to the Fallacy of the Last Move. Berkeley: U. of California, 1989.  
UGK 1012 .L31 1989.

### Periodical Articles

Anson, Peter, and Dennis Cummings. "First Space War: The Contribution of Satellites to the Gulf War." Royal United Service Institute for Defence Studies Journal 136 (Winter 1991): 45-53.

Jones, Rodney W., and Steven A. Hildreth. "Star Wars: Down to Earth, or Gleam in the Sky?" Washington Quarterly 7 (Fall 1984): 104-111.

CHEMICAL AND BIOLOGICAL WARFARE

Books, Reports, and Government Documents

Brown, Frederic J. Chemical Warfare: A Study in Restraints.

Princeton: Princeton UP, 1968.

UG 447 .B87.

Douglass, Joseph D. America the Vulnerable: The Threat of Chemical and Biological Warfare. Lexington: Lexington, 1987.  
UG 447 .D68 1987.

Douglass, Joseph D. Jr. "The Impact of New Technologies on Chemical and Biological Warfare." Emerging Doctrines and Technologies: Implications for Global and Regional Political-Military Balances. ed. Robert L. Pfaltzgraff Jr., et al. Lexington: Heath, 1988. 203-214.  
U 42 .E48 1988.

Taylor, C. L., and Jr L. B. Taylor. Chemical and Biological Warfare. rev. ed. New York: Watts, 1992.  
UG 447 .T39 1992.

Williams, Peter, and David Wallace. Unit 731: Japan's Secret Biological Warfare in World War II. New York: Free Press, 1989.  
D 810 .B3 W55 1989.

### **Periodical Articles**

Douglass, Joseph D. "Beyond Nuclear War." Journal of Social, Political, and Economic Studies 15 (Summer 1990): 141-156.

Douglass, Joseph D. Jr. "Expanding Threat of Chemical-Biological Warfare: A Case of U.S. Tunnel-Vision." Strategic Review 14 (Fall 1986): 37-46.

Douglass, Joseph D. Jr., and H. Richard Lukens. "The Expanding Arena of Chemical-Biological Warfare." Strategic Review 12 (Fall 1984): 71-80.

Frisina, Michael F. "The Offensive-Defensive Distinction in Military Biological Research." Hastings Center Report 20 (May/ June 1990): 19-22.

McNaugher, Thomas L. "Ballistic Missiles and Chemical Weapons: The Legacy of the Iran-Iraq War." International Security 15 (Fall 1990): 5-34.

MILITARY ELECTRONICS AND COMMUNICATION  
Books, Reports, and Government Documents

Allison, David Kite. New Eve for the Navy: The Origin of Radar at the Naval Research Laboratory. Washington: GPO, 1981.  
Gov Doc D210.8:8466.

Barnaby, Frank. The Automated Battlefield. New York: Free Press, 1986.  
U 21.2 .B35 1986.

Bekker, Cajus. Radar-Duell im Dunkel: Dramatische Höhepunkte der Wissenschaftlich-Technischen Kriegsführung. Oldenburg: Stalling, 1958.  
D 810 .R33 B48.

Bell Telephone Laboratories. A History of Engineering and Science in the Bell System: National Service in War and Peace (1925-1975). New York: Bell Telephone Laboratories, 1978.  
UG 485 .B4.

Bellin, David, Gary Chapman, and Charles D. Bright. Computers in Battle: Will They Work? Boston: Harcourt, 1987.  
UG 478 .C66 1987.

Bergen, John D. Military Communications: A Test for Technolow. Washington: U.S. Army Center of Military History, 1986.  
Gov Docs D114.7/3:C73.

Campen, Alan D., Ed. The First Information War: The Story of Communications, Computers, and Intelligence Systems in the Persian Gulf War. Fairfax: AFCEA, 1992.  
UB 255 .F52 1992.

Chizum, David G. Soviet Radioelectronic Combat. Boulder: Westview, 1985.  
UG 485 .C47 1985.

De Arcangelis, Mario. Electronic Warfare: From the Battle of Tsushima to the Falklands and Lebanon Conflicts. Poole, Dorset; New York: Blandford, 1985.  
UG 485 .D413 1985.

Devereux, Tony. Messenger Gods of Battle: Radio, Radar, Sonar, the Story of Electronics in War. London; Washington: Brassey's, 1991.  
UG 485 .D48 1991.

Dickson, John R. Electronic Warfare in Vietnam: Did We Learn Our Lessons? Maxwell AFB: Air War College, 1987.  
UGB 907 .A433 87-053.

Dickson, Paul. The Electronic Battlefield. Bloomington: Indiana UP, 1976.  
UG 485 .D5 1976.

Fisher, David E. A Race on the Edge of Time: Radar- the Decisive Weapon of World War II. New York: McGraw-Hill, 1988.  
D 810 .R33 F57 1988.

Fitts, Richard E., ed. The Strategy of Electromagnetic Conflict. Colorado Springs: USAF Academy, 1979.  
Lib. also has the 1980 printing: Spec Coll UG 485 .S78 1980.  
UG 485 .S78; Report Lit. ADA 065 453.

Friedman, Norman. Naval Radar. Annapolis: Naval Inst., 1981.  
VM 480 .F74 1981.

Gebhard, Louis A. Evolution of Naval Radio-Electronics and Contributions of the Naval Research Laboratory. Washington: Naval Research Lab., 1979.  
Gov Doc D210.8:8300; Report Lit. ADA 084 225.

Golden, August. Radar Electronic Warfare. New York: American Inst. of Aeronautics and Astronautics, 1987.  
UG 485 .G6 1987.

Gordon, Don E. Electronic Warfare: Element of Strategy and Multiplier of Combat Power. New York: Pergamon, 1981.  
UG 485 .G63 1981.

Guerlac, Henry. Radar in World War II. Los Angeles; New York: Tomash; Am. Inst. of Physic, 1987. 2 vols.  
D 810 .R33 G84 1987.

Hall, P. S., et al. Radar. London; Washington: Brassey's, 1991.  
UG 612 .R33 1991.

Headrick, Daniel R. The Invisible Weapon: Telecommunications and International Politics. 1851-1945, New York: Oxford UP, 1991.  
HE 7651 .H43 1991.

Helberg, Kenneth, et al. Electronic Warfare Technology - Trends and Visions. Wright-Patterson AFB: WRDC, 1990.  
Report Lit. ADA 223 034.

The International Countermeasures Handbook. 13th ed. Palo Alto: EW Communications, 1988.  
Ref UG 485 .I53 1988.

Jane's C p3 SI Systems. Coulsdon: Jane's, 1989 to date.  
Ref UB 212 .J35.

Jane's Radar and Electronic Warfare Systems. Alexandria: Jane's, 1989 to date.  
Ref UG 485 .J36.

Kiely, D. G. Naval Electronic Warfare. London; Washington: Brassey's, 1988.  
VM 480.5 .G7 K54 1988.

Lovell, Bernard. Echoes of War: The Story of H b2 ss Radar. Bristol; Philadelphia: Hilger, 1991.  
D 810 .R33 L68 1991.

Munro, Neil. The Quick and the Dead: Electronic Combat and Modern Warfare. New York: St. Martin's, 1991.  
UG 485 .M79 1991.

Page, Robert M. The Origin of Radar. Garden City: Doubleday, 1962.  
TK 6575 .P13.

Paschall, Lee M., ed. Air and Satellite Communications. Washington: AFCEA, 1985.  
UB 212 .A37 1985.

Price, Alfred. The History of US Electronic Warfare. Arlington: Assn. of Old Crows, 1984-.  
UG 485 .P75 1984 v. 2.

---. Instruments of Darkness: The History of Electronic Warfare. New York: Scribner's, 1978.  
UG 612 .P74 1978.

Pritchard, David. The Radar War: Germany's Pioneering Achievement 1904-1945. Wellingborough: Stephens, 1989.  
UG 612.5 .G3 P75 1989.

Rash, Richard A. Electronic Combat: Makins the Other Guy Die for His Country. Maxwell AFB: Air War College, 1982.  
UGB 907 .A433 83-194.

Rice, M. A., and A. J. Saames. Communications and Information Systems for Battlefield Command and Control. London; Washington: Brassey's, 1989.  
UB 212 .R53 1989.

Richardson, Doug. An Illustrated Guide to the Techniaues and Equipment of Electronic Warfare. New York: Arco, 1985.  
Ref UG 485 .R53 1985.

Rowe, Albert P. One Story of Radar. Cambridge: Cambridge UP, 1948.  
D 810 .R33 R87.

Schleher, D. Curtis. Introduction to Electronic Warfare. Dedham, MA: Artech, 1986.  
UG 485 .S35 1986.

Streetly, Martin. Airborne Electronic Warfare: History, Techniques, and Tactics. London; New York: Jane's, 1988.  
UG 485 .S82 1988.

Watson-Watt, Robert A. The Pulse of Radar: The Autobiography of Sir Robert Watson-Watt. New York: Dial, 1959.  
D 810 .R33 W34.

----. Three Steps to Victory. London: Odham, 1957.  
D 810 .S2 W34.

## Periodical Articles

- Burhans, William A. "Electronic Combat and the Persian Gulf War." Journal of Electronic Defense 15 (Feb. 1992): 26-27+.
- Cashman, H. James. "Army Battlefield Automation: The Military Computer Family Concept." Signal 37 (July 1983): 37-42.
- Cowan, Alvin T. "Brilliant Munitions Must Merge Hardware and Software." Defense Electronics 15 (July 1983): 60-62+.
- Currie, Malcolm R. "Electronic Warfare's Role in Future Conflicts." Commanders Digest 19 (Dec. 9, 1976): entire issue.
- Curtis, Richard D. "An Overview of Surface Navy ESM/ECM Development." Journal of Electronic Defense 5 (Mar. 1982): 27-38.
- Gottlieb, Irving M. "From Smoke Signals to Spread Spectrum: Military Communications Decides Who Wins the War." Military Electronics/Countermeasures 8 (Jan. 1982): 42-47.
- Grier, Peter. "Data Weapon." Government Executive 24 (June 1992): 20-22+.
- Hessman, James D., and Jack Hessman. "The Electronic Abacus-Evolution of a Revolution: How Computers Have Changed the Navy." Sea Power 28 (Aug. 1985): 45+.
- Jackson, Grady L. "Electronic Warfare in the 1990s." Journal of Electronic Defense 13 (April 1990): 35-36+.
- Keel, Earl E. Jr. "Microelectronics: Crucial Salients in the War of Technology." Military Review 61 (Jan. 1981): 43-50.
- Kuehl, Daniel T. "Refighting the Last War: Electronic Warfare and U. S. Air Force Operations in the Korean War, 1950-1953." Journal of Military History 56 (Jan. 1992): 87-111.
- Monsarrat, John. "Radar in Retrospect: How It Helped Win the Battle of Britain and the Battle of Okinawa." Journal of Electronic Defense 14 (Oct. 1991): 92+.
- Moore, Gordon E. "The Chip- True Twentieth Century Revolutionary." NATO's Sixteen Nations 28 (April/May 1983): 52- 54+.
- Pollock, David H. "An Introduction to Electrooptical Warfare." Signal 38 (April 1984): 35-38.

Voltaggio, Frank Jr. "Origins of ECM in the Air Force." Journal of Electronic Defense 5 (June 1982): 34-37+.

Walker, Hamilton C. "Applying Advanced Computer Technology to the Military Environment." Signal 35 (Mar. 1981): 35-41.

Whited, Charles E. "Military Applications of Laser Communications." Signal 36 (Sept. 1981) : 55-59.

## LOGISTICS

### Books, Reports, and Government Documents

Berman, Morton B., et al. Evaluating the Combat Pavoff of Alternative Losistics Structures for High-Technology Subsvstems. Santa Monica: Rand, 1988.  
Report Lit. RAND-R-3673-A; ADA 212 735.

Huston, James A. The Sinews of War: Army Losistics, 1775-1953. Washington: Office of the Chief of Military History, U.S. Army, 1966.  
U 168 .H97.

Macksey, Kenneth. For Want of a Nail: The Impact on War of Losistics and Communications. London; Washington: Brassey's, 1989.  
U 168 .M33 1989.

Paulson, Robert M., and Thomas T. Tierney. Losistics and Technolosv: Some Thoushts About Future Military Implications. Santa Monica: RAND, 1971.  
Report Lit. AD 738 045; RAND-P-4597.

Shaw, George C. Supply in Modern War. London: Faber, 1938.  
UC 10 .S54.

Van Creveld, Martin L. Supplying War: Losistics from Wallenstein to Patton. New York: Cambridge UP, 1977.  
U 168 .V36.

### **Periodical Articles**

Bodner, William S. "Effects of New Developments in Warfare on Logistics." Military Review 31 (Oct. 1951): 14-26.

Lefevre de Montigny, G. J. "Logistic Problems in an Era of Wholesale Motorization." Military Review 37 (Aug. 1957): 95-98.

McDonald, Charles C. "Technology Innovation in Logistics Support." Logistics Spectrum 25 (Fall 1991): 20-23.

Moorman, Frank W. "Logistical Problems in Modern Warfare!!" Military Review 30 (July 1950): 3-9.

Spalding, Ken. "Technology is Reducing the Logistics Burden." Army Logistician 16 (Sept./Oct. 1984): 12-16.

Stein, Robert G. "New Technologies of the Next Decade and Their Impact on Logistics." Logistics Spectrum 25 (Fall 1991): 24-25.

Tremaine, Stanley A., and Paul J. Palcic. "Future World Systems: The Calamity of Logistics." Air Force Journal of Logistics 9 (Winter 1985): 9-13.

**INTELLIGENCE AND RECONNAISSANCE**  
**Books, Reports, and Government Documents**

- Garlinski, Josef. The Enigma War. New York: Scribner, 1980.  
D 810 .S7 G32 1980.
- Haydon, Frederic S. Aeronautics in the Union and Confederate Armies, with a Survey of Military Aeronautics Prior to 1861. Baltimore: Johns Hopkins UP, 1941-.  
Gimbel Coll. E 492.7 .H41.
- Heymont, Irving. Combat Intellisence in Modern Warfare. Harrisburg: Military Service; Stackpole, 1960.  
U 220 .H61.
- Jane's Battlefield Surveillance Systems. Coulsdon: Jane's, 1989 to date.  
Ref U 104 .J32.
- Jones, R. V. The Wizard War: British Scientific Intellisence 1939-1945. New York: Coward, McCann, 1978.  
D 810 .C88 J66 1978.
- Kahn, David. The Codebreakers: The Story of Secret Writing. New York: Macmillan, 1967.  
Z 104 .K1c.
- Lewin, Ronald. Ultra Goes to War: The First Account of World War II's Greatest Secret Based on Official Documents. New York: McGraw-Hill, 1978.  
D 810 .S7 L43 1978.
- Mead, Peter. The Eve in the Air: History of Air Observation and Reconnaissance for the Army, 1785-1945. London: HMSO, 1983.  
UGK 141 .M47 1983.
- Nowarr, Heinz J. Die Ausen des Heeres. Stuttgart: Motorbuch Verlag, 1981.  
UGK 141 .N68 1981.
- Peebles, Curtis. Guardians: Strategic Reconnaissance Satellites. Novato: Presidio, 1987.  
UGK 1012 .P373 1987.
- Powys-Lybbe, Ursula. The Eve of Intellisence. London: Kimber, 1983.  
D 810 .P4 P6 1983.

Richelson, Jeffrey T., and Robert A. Hoover. America's Secret Eyes in Space: The U.S. Keyhole Spy Satellite Program. New York: Harper, 1990.  
**UGK 1012 .R53 1990.**

Winterbotham, F. W. The Ultra Secret. New York: Harper, 1974.  
D 810 .C88 W56 1974.

#### **Periodical Articles**

York, Herbert F., and Allen G. Greb. "Strategic Reconnaissance." Bulletin of the Atomic Scientists 33 (April 1977): 33-42.

## FUTURE WARFARE

### Books, Reports, and Government Documents

Baker, David. The Shape of Wars to Come. Cambridge: Stephens, 1981.  
UGK 1012 .B15.

Barnaby, Frank, ed. Future War: Armed Conflict in the Next Decade. New York: Facts on File, 1984.  
Ref U 21.2 .F88 1984.

Beckett, Brian. Weapons of Tomorrow. New York: Plenum, 1983.  
UF 500 .B43 1983.

Bellamy, Chris. The Future of Land Warfare. New York: St. Martin's, 1987.  
U 42 .B45.

Collins, John M. Military Space Forces: The Next 50 Years. Washington: Pergamon-Brassey's, 1989.  
UGK 1012 .C65 1989.

Cunningham, Ann Marie, and Mariana Fitzpatrick. Future Fire: Weapons for the Apocalypse. New York: Warner, 1983.  
UF 500 .F87 1983.

Darilek, R. E., et al. Surveying Relevant Emersins Technologies for the Army of the Future. Santa Monica: Rand, 1988.  
Report Lit. RAND-R-3564-A; ADA 213 821.

Gansler, Jacques S. "The Future Defense Industrial Base," American Defense Annual 1993. ed. Joseph Kruzel. New York; Columbus: Lexington; Mershon Ctr., Ohio State U., 1993. 199-219.  
Ref UA 23 .A1 A47 1993.

Gessert, Robert A. "Technology Diffusion: Implication for the Alliance and for Smaller Military Powers at the End of the Twentieth Century." Emerging Doctrines and Technologies: Implications for Global and Regional Political-Military Balances. ed. Robert L. Pfaltzgraff Jr., et al. Lexington: Heath, 1988. 227-234.  
U 42 .E48 1988.

Griffith, Paddy. The Ultimate Weaponry: What It Is and How It Will Be Used, Now and in the Future. New York: St. Martin's, 1991.  
UF 500 .G75 1991.

Jones, R. V. Future Conflict and New Technology. Washington; Beverly Hills: Center for Strategic and International Studies, Georgetown U, 1981.  
UF 500 .J66.

Langford, David. War in 2080: The Future of Military Technology. New York: Morrow, 1979.  
U 815 .L36.

McIntyre, John Joseph, ed. The Future of Conflict. Washington: National Defense UP, 1979.  
Gov DOC D5.402:C76/976-79.

Messenger, Charles. Armies of World War III. New York: Military Press, 1984.  
Ref U 815 .M4 1984.

Shaker, Steven M., and Alan R. Wise. War Without Men: Robots on the Future Battlefield. McLean: Pergamon-Brassey's, 1988.  
UG 615 .S53 1988.

Simpkin, Richard E. Race to the Swift: Thoughts on Twenty-First Century Warfare. London; Washington: Brassey's, 1985.  
U 21.2 .S56 1985.

Stockholm International Peace Research Institute. Outer Space, Battlefield of the Future? London; New York: Taylor & Francis; Crane, Russak, 1978.  
UGK 1012 .S86.

Sullivan, Gordon R., and James M. Dubik. Land Warfare in the 21st Century. Carlisle Barracks: Strategic Studies Inst., U.S. Army War College, 1993.  
Report Lit. ADA 262 573.

Tritten, James J. The Submarine's Role in Future Naval Warfare. Monterey: Naval Postgraduate School, 1992.  
Report Lit. ADA 252 808.

United States. Cong. Office of Technology Assessment. Building Future Security: Strategies for Restructuring the Defense Technology and Industrial Base. Washington: GPO, 1992.  
Gov Docs Y3.T22/2: 2 Se 2.

Utgoff, Victor A. "Military Technology: Options for the Future." The American Military in the Twenty-First Century. New York: St. Martin's, 1993. 143-195.  
UA 23 .A66147 1993.

## Periodical Articles

Ackerman, Robert K. "Twenty-First Century Army to Embrace High Technology." Signal 46 (July 1992): 49-51.

Brower, Kenneth S. "Technology and the Future Battlefield: The Impact on Force Structure, Procurement, and Arms Control." Royal United Service Institute for Defence Studies Journal 135 (Spring 1990): 53-59.

Cetron, Marvin J. "Technological Forecasting: A Prescription for the Military R & D Manager." Naval War College Review 21 (April 1969): 14-39.

Galatowitsch, Sheila. "Defense 2010: Ten Technologies That Will Change the Way We Build Systems, Fight Wars and Envision Defense." Defense Electronics 24 (Dec. 1992): 49-54.

Heilmeier, George H. "The Influence of Technology on Warfare in the 21st Century." Marine Corps Gazette 69 (Nov. 1985): 30-36.

Herskovitz, Don. "Military Computing in the Year 2001 and Beyond." Journal of Electronic Defense 17 (Feb. 1994): 41-45.

Jager, Gerhard. "Technological and Scientific Trends for Defence in the Future." Military Technolow 14 (Oct. 1990): 166-170.

Josephson, Edward H., and and Raymond M. Macedonia. "Enhancing Total Combat Power with Fewer Forces." American Academy of Political and Social Science Annals 517 (Sept. 1991): 174-192.

Libbey, Miles A. III, and Patrick A. Putignano. "See Deep Shoot Deep: UAVs on the Future Battlefield." Military Review 71 (Feb. 1991): 38-47.

Maginnis, Robert L. "Selecting Emerging Technologies." Military Review 66 (Dec. 1986): 32-41.

Martino, Joseph P. "Forecasting the Progess of Technology." Air University Review 20 (Mar./April 1969): 11-20.

Newell, Clayton R. "Operating in the 21st Century." Military Review 66 (Sept. 1986): 4-10.

.... "The Technological Future of War." Military Review 69 (Oct. 1989): 22-28.

Pandolfi, Richard. "Automation of the Battlefield the Future of War." Defense Science 8 (June 1989): 49+.

Peters, Ralph. "Army of the Future." Military Review 67 (Sept. 1987): 36-45.

.... "Movable Fortress: Warfare in the 21st Century." Military Review 73 (June 1993): 62-72.

Reid, Brian Holden. "The Tank and Visions of Future War." History Today 37 (Dec. 1987): 36-41.

"The Role of Aerospace Power in U.S. National Security in the Next Quarter Century." Comparative Strategies 12 (July/Sept. 1993): 251-297.

Sullivan, Gordon R. "Moving into the 21st Century: America's Army and Modernization." Military Review 73 (July 1993): 2-11.

Summers, Harry G. Jr. "Man or Machine: Which Will Fight War Tomorrow?" Defense and Diplomacy 9 (Mar./April 1991): 18-19.

Timmerman, Frederick W. "Future Warriors." Military Review 67 (Sept. 1987) : 46-55.