

The Personal Papers of Colonel John R. Boyd (USAF)

Part II

Scope and Content Note

The Marine Corps University, Quantico, Virginia, holds the personal papers and archives of the late Air Force Colonel John R. Boyd. In the archive, Colonel Boyd's papers are divided into fourteen records series. The first series is composed of books, which he heavily annotated. The degree of importance Boyd placed on the information is witnessed by how heavily he marked the pages. Pages heavily underlined with stars across the top and bottom were of the greatest interest. Sometimes he wrote comments in the margins. He often bought two copies of the same title and edition at a time. One copy was the clean reference copy, the other the working copy with his annotations. In several instances, Boyd collected different editions and/or translations of works by authors whom he admired. For example, he had various editions of Sun Tzu's military classic: *The Art of War*. From time to time he would start to read a book in a book store, buy it, then once he got it home would not look at it again. Other books were given to him as gifts. The books are arranged by subject, there under by author.

The arrangement of the books is purely arbitrary, since some books could fall under more than subject. For example, a book on World War II German military tactics could be filed under either *military strategy* or *military history*. An annotated book is indicated by a bullet in front of the author's name. The number of copies of each book is also indicated. The second series is excerpts or photocopies of books, arranged alphabetically by author. The third series is Magazines This is arranged chronologically by magazine. The fourth is Articles, arranged alphabetically. The fifth is Miscellaneous Newspaper Clippings. The sixth series is Briefings, and is subdivided into two parts. The first sub-series is John Boyd's own briefings, arranged by briefing, there under chronologically by version. The second sub-series is briefings done by others, arranged alphabetically. Next is the Reports and Concept Papers series. This is arranged alphabetically.

Notes and Notebook series is composed of John Boyd's handwritten notes and drafts. Items that were together in an envelop were kept together. He frequently abbreviated terms. T-T-D scrawled across the top of a page means "things to do". "POC" is "Patterns of Conflict". The Course Syllabi and Seminars series, number nine, reflects John Boyd's work developing course curricula in professional military education. The Technical Material series, number ten, reflects his studies of business management. The eleventh series is Correspondence and Memoranda, arranged chronologically. The twelfth series, Yearbooks and Daily Diaries, is arranged chronologically. The General series, number thirteen, is composed of miscellaneous documents. The Photographs and Audiovisual series, number fourteen, consists of still photographs of Colonel Boyd and his family, and one of his briefings.

Series Description

Part I:

Books:

- Biography/History/Military History
- Biography

- General History
- Ancient Greece and Rome
- American Civil War/United States
- European: Napoleon Bonaparte
- European: Germany
- World War I
- World II
- Korea
- Vietnam
- Other Conflicts
- Special Operations
- Military Reform
- Military Strategy

Part II:

- [Political Theory/Philosophy/Math and Science](#)
- [Cold War and Espionage](#)
- [Equipment and Military Hardware](#)
- [Business Management](#)
- [General](#)

Excerpts from books:

- photo-copies of published material, mostly individual chapters of books 1.3 cubic feet

[Magazines:](#)

- 3 cubic feet

[Miscellaneous Newspaper Clippings](#)

[Articles:](#)

- reprints, magazine and journal articles, some annotated, memoranda, etc. 0.67 cubic feet

Briefings:

- [John Boyd's](#)-- 1976-1 996
- abstracts, diagrams, transparencies and source list (John Boyd's required reading list) of briefings prepared by Boyd, critiques of Boyd's briefings, etc.
- 2 cubic feet

By Others

- abstracts, correspondence, memoranda, magazine and newspaper clippings, book reviews, thought pieces, manuscripts, etc.
- 1 cubic foot

Reports and Concept Papers:

- reports, correspondence, memoranda, papers, reprints, diagrams, etc.
- 0.8 cubic feet

Notes and Notebooks:

- handwritten drafts, typed manuscripts, correspondence, memoranda, magazine articles, mathematical equations, etc.
- 0.67 cubic feet

Course Syllabi and Seminars:

- correspondence, abstracts, magazine articles, concept papers, syllabi, pamphlets, etc. 0.5 cubic feet

Technical Material:

- factory management abstracts
- 0.165 cubic feet

Correspondence and Memoranda — 1970-1995:

- correspondence, notes, etc.
- 0.165 cubic feet

Yearbooks and Desk Diaries -- 1943-1986:

- high school and Air Force yearbooks, desk diaries

General:

Memoranda, abstracts, magazine and newspaper articles, federal legislation,

Congressional testimony, flight records, published material, short story, membership certificate, engineering drawings for air craft, transcript of oral history interviews, handwritten notes, favorite quotes, resume, manuscript, travel itinerary, agendas, etc.,
0.67 cubic feet

Artifacts:

- clothing, plaques, citations, awards, type writer ball

Photographs and video tapes:

- still photographs and video tape recordings
 - 0.5 cubic feet
-

Political Theory/Philosophy/New Age/Math and Science:

Robert J. Ackermann; *Modern Deductive Logic: An Introduction to its Techniques and Significance*, Anchor Books, New York, 1970

Paul Alexandroff; *Topology*, translated by Alan E. Farley, Dover

A.D. Aleksandrov, et.al.; *Mathematics: Its Content, Methods, and Meaning*, vol. 1-3, MIT Press, 1969

U.S. Andersen; *Success-Cybernetics: Practical Applications of Human-Cybernetics*, Wiltshire Book Co., North Hollywood, CA 1970

P.W. Atkins; *The Second Law*, Scientific American Library, New York, 1984 annotated

Robert Axelrod; *The Evolution of Cooperation*, Basic Books, New York, 1984 annotated, page notations inside back cover

David Barash; *The Whisperings Within: Evolution and the Origin of Human Nature*, Penguin, 1979

Lincoln Barnett; *The Universe and Dr. Einstein*, revised edition, Bantam Books, New York, 1973 annotated

John D. Barrow; *Pi in the Sky: Counting, Thinking and Being*, Clarendon Press, Oxford 1992 annotated with page notations inside back cover

John D. Barrow and Joseph Silk; *The Left Hand of Creation: The Origin and Evolution of the Expanding Universe*, Basic Books, New York, 1983

John D. Barrow; *Theories of Everything: The Quest for Ultimate Explanation*, Fawcett Columbine, New York, 1991 annotated with page notations inside back cover

Gregory Bateson; *Mind and Nature: A Necessary Unity*, E. P. Dutton, New York, 1979 annotated with loose sheet of notes

Gregory Bateson; *Mind and Nature: A Necessary Unity*, Bantam, 1980 2 copies, one annotated

Ernest Becker; *The Structure of Evil: An Essay on the Unification of the Science of Man*, The Free Press, New York, 1976 annotated with page notations inside back cover and loose sheet of notes

Richard E. Bellman and Stuart E. Dreyfus; *Applied Dynamic Programming*, Princeton University Press, 1962

Henri Bergson; *The Creative Mind*, Littlefield, Adams, Totowa, NJ, 1975

Arthur I. Berman; *Astronautics: Fundamentals of Dynamical Astronomy and Space Flight*, John Wiley & Sons, New York, 1961

W.I.B. Beveridge; *The Art of Scientific Investigation*, Vintage Book, New York, annotated

Colin Blakemore; *Mechanics of the Mind*, BBC Reith Lectures 1976, Cambridge University Press, 1977

Thomas R. Blakeslee; *The Right Brain: A New Understanding of the Unconscious Mind and Its Creative Powers*, Playboy Paperbacks, 1983

V.M. Blanco and S.W. McCuskey; *Basic Physics of the Solar System*, Addison-Wesley, Reading, MA, 1961

David Bohm and F. David Peat; *Science, Order, and Creativity*, Bantam Books, New York, 1987 annotated, page notations on separate sheet of paper

Allan Bloom; *The Closing of the American Mind*, Simon & Schuster, New York, 1987 annotated with page notations inside back cover

Edward de Bono; *Lateral Thinking: Creativity Step by Step*, Harper Colophon Books, New York, 1973 annotated

Edward de Bono; *New Think: the Use of Lateral Thinking in the Generation of New Ideas*, Avon, New York, 1971 annotated

George Boole; *An Investigation of the Laws of Thought: the Mathematical Theories of Logic and Probabilities*, Dover Publications, Inc.

John Boslough; *Masters of Time: Cosmology at the End of Innocence*, Addison-Wesley, Reading, MA, 1992 handwritten dedication to John Boyd from the author

Louis Brand; *Vector Analysis*, John Wiley & Sons, Inc., London, 1957 annotated

John Briggs and F. David Peat; *Turbulent Mirror: An Illustrated Guide to Chaos Theory and the Science of Wholeness*, Harper & Row, New York, 1989 annotated, page notation inside back cover

John Briggs and F. David Peat; *Looking Glass Universe: The Emerging Science of Wholeness*, Simon & Schuster, Inc., New York, 1984 2 copies, one annotated with loose sheet of notes and page notations inside back cover Claude M. Bristol; *The Magic of Believing*, Cornerstone Library, New York, 1972

William Broad and Nicholas Wade; *Betrayers of the Truth: Fraud and Deceit in the Halls of Science*, Simon and Schuster, New York, 1982 annotated

Jacob Bronowski; *The Identity of Man*, The American Museum of Natural History, Natural History Press, New York, 1971 2 copies, one annotated with page notations inside back cover

J. Bronowski; *The Origins of Knowledge and Imagination*, Yale University Press, 1978 annotated with page notations inside back cover

J. Bronowski; *A Sense of The Future: Essays in Natural Philosophy*, The MIT Press, 1977 annotated with page notations inside back cover

J. Bronowski; *The Ascent of Man*, Little, Brown & Co., Boston, 1973 annotated

J. Bronowski; *The Origins of Knowledge and Imagination*, Silliman Memorial Lectures, Yale University Press, 1979 annotated, page notations inside back cover

Barbara Brown; *Supermind: The Ultimate Energy*, Harper & Row, New York, 1980

G. Spencer Brown; *Law of Form*, The Julian Press, Inc., New York, 1972 annotated with loose sheets of handwritten notes of mathematical equations

Zbigniew Brzezinski; *Game Plan: How to Conduct the U.S.--Soviet Contest*, The Atlantic Monthly Press, New York, 1986 annotated, page notations and notes on separate sheet of paper
Emile Burns, editor; *The Marxist Reader*, Avenel Books, New York, 1982

Nigel Calder; *The Key to the Universe: A Report on the New Physics*, Penguin Books, New York, 1978

Fritjof Capra; *The Tao of Physics: An Exploration of the Parallels Between Modern Physics and Eastern Mysticism*, Bantam Books, New York, 1977 2 copies, one annotated with notes and page notations inside front and back cover

Fritjof Capra; *The Turning Point: Science, Society, and the Rising Culture*, Simon and Schuster, New York, 1982 annotated

Giorgio Careri; *Order and Disorder in Matter*, translated from the Italian by Kristin Jarratt, the Benjamin/Cummings Co., Menlo Park, CA 1984 annotated

Hendrik B.G. Casimir; *Haphazard Reality: Half a Century of Science*, Harper & Row, New York, 1983 annotated

John L. Casti; *Paradigms Lost: Images of Man in the Mirror of Science*, William Morrow and Co., New York, 1989 annotated

John L. Casti; *Searching for Certainty: What Scientists Can Know About the Future*, William Morrow and Co., New York, 1990 annotated

John L. Casti; *Complexification: Explaining a Paradoxical World Through the Science of Surprise*, Harper Collins, New York, 1994 annotated

Eric Chaisson; *Cosmic Dawn: The Origins of Matter and Life*, Berkley Books, New York, 1984

G.J. Chaitin; *Information Randomness & Incompleteness: Papers on Algorithmic Information Theory*, 2nd edition, World Scientific, series in computer science - vol. 8, 1990 annotated

Pierre Teilhard de Chardin; *The Phenomenon of Man*, Harper Torchbooks, New York, 1965

Barbara Lovett Cline; *Men Who Made a New Physics: Physicists and Quantum Theory*, University of Chicago Press, 1987 annotated

Earl A. Coddington; *An Introduction to Ordinary Differential Equations*, Prentice-Hall, Inc., Englewood Cliffs, N.J., 1961

Giles Cohen-Tannoudji; *Universal Constants in Physics*, originally published as *Les Constantes universelles*, translated by Patricia Thicksteen, McGraw-Hill, New York, 1993 annotated

K.C. Cole; *Sympathetic Vibrations: Reflections on Physics as a Way of Life*, Bantam Books, New York, 1985 2 copies, one annotated with page notations inside back cover

Saxe Commins and Robert N. Linscott, ed.; *Man and Spirit: The Speculative Philosophers, Man and the State: The Political Philosophers, Man and the Universe: The Philosophers of Science, and Man and Man: The Social Philosophers*, Random House, New York

James Bryant Conant; *Two Modes of Thought: My Encounters with Science and Education*, Simon and Schuster, New York, 1970 annotated

Irving M. Copi; *Symbolic Logic*, Macmillan, New York, 1961

Peter Coveney and Roger Highfield; *The Arrow of Time: A Voyage Through Science to Solve Time's Greatest Mystery*, Fawcett Columbine, New York, 1990 annotated, page notations inside back cover

Peter Coveney and Roger Highfield; *Frontiers of Complexity: The Search for Order in a Chaotic World*, Fawcett Colombine, New York, 1995 annotated

David Cox; *Modern Psychology: The Teachings of Carl Gustav Jung* Barnes & Noble, New York, 1968

Robert P. Crease and Charles C. Mann; *The Second Creation: Makers of the Revolution in Twentieth-Century Physics*, Macmillan, New York, 1986 annotated

Francis Crick; *The Astonishing Hypothesis: The Scientific Search for the Soul*, Charles Scribner's Sons, New York, 1994 annotated

Edwin L. Crow, et.al.; *Statistics Manual*, Research Department U.S. Naval Ordnance Test Station, Dover, New York, 1960

Haskell B. Curry; *Foundations of Mathematical Logic*, Dover, New York, 1977

Ann Cutler and Rudolph McShane; *The Trachtenberg Speed System of Basic Mathematics*, Doubleday & Co., New York, 1960

A. d'Abro; *The Rise of the New Physics*, vol. 1 & 2, Dover, New York both volumes annotated. page notations inside back covers

Charles Darwin; *The Origin of Species*, Penguin Books

Paul Davies; *The Runaway Universe*, Harper & Row, New York, 1978

Paul Davies; *The Runaway Universe*, Penguin Books, 1980

Paul Davies; *The Cosmic Blueprint: New Discoveries in Nature's Creative Ability to Order the Universe*, Simon and Schuster, New York, 1986 annotated, page notations inside back cover

Paul Davies; *The Edge of Infinity*, Simon and Schuster, New York, 1981

Richard Dawkins; *The Selfish Gene*, Oxford University Press, 1976 2 copies, one annotated with loose pages of notes

Richard Dawkins; *The Selfish Gene*, new edition, Oxford University Press, 1989

Richard Dawkins; *The Extended Phenotype: The Long Reach of the Gene*, Oxford University Press, 1982 annotated

Richard Dawkins; *The Blind Watchmaker: Why the Evidence of Evolution Reveals a Universe Without Design*, W.W. Norton, New York, 1986 annotated, page notations inside back cover

José M.R. Delgado; *Physical Control of the Mind: Toward a Psychocivilized Society*, Harper Torchbooks, New York, 1971

Ernest Dimmet; *The Art of Thinking*, Fawcett Premier, Greenwich, CT

Milovan Djilas; *The New Class: An Analysis of the Communist System*, Frederick A. Praeger, New York, 1962 annotated

Daniel O. Dommasch, et.al.; *Airplane Aerodynamics*, 3rd edition, Pittman Publishing Corp., New York, 1961 annotated

James E. Dougherty and Robert L. Pfaltagraff, Jr.; *Contending Theories of International Relations: A Comprehensive Survey*, 2nd edition, Harper & Row, New York, 1981 annotated

Rush W. Dozier, Jr.; *Codes of Evolution: The Synaptic Language Revealing the Secrets Matter, Life, and Thought*, Crown Publishers, New York, 1992 annotated with notes inside back cover

K. Eric Drexler; *Engines of Creation: The Coming Era of Nanotechnology*, Anchor Books, New York, 1987 annotated

Freeman Dyson; *Disturbing the Universe*, Harper & Row, New York, 1979 annotated with page notations inside back cover

Jacques Ehrmann, ed.; *Structuralism*, Anchor Books, Doubleday, New York, 1970

Irenäus Eibel-Eibesfeldt; *The Biology of Peace and War: Men, Animals and Aggression*, translated from the German by Eric Mosbacher, The Viking Press, New York, 1979

Allbert Einstein; *Ideas and Opinions*, based on *Mein Weltbild*, new translation by Sonja Bargmann, Dell, 1973

Loren Eiseley; *The Man Who Saw Through Time*, revised and enlarged edition of *Francis Bacon and the Modern Dilemma*, Charles Scribner's Sons, New York, 1973

Ivar Ekeland; *Mathematics and the Unexpected*, University of Chicago Press, 1988 2 copies, one annotated with page notations inside back cover

F.E. Emery, ed.; *Systems Thinking*, Penguin, 1976 2 copies

E.R. Emmet; *Handbook of Logic: The Use of Reason*, Littlefield, Adams & Co., Totowa, NJ, 1967

Frederick Engels; *Dialectics of Nature*, translated and edited by J.B.S. Haldane, International Publishers, New York, 1979

Christopher Evans; *The Micro Millennium*, Washington Square Press, New York, 1981

P.S. Farago; *Free-Electron Physics*, Penguin Books, 1970

N. Feather; *Matter and Motion*, Penguin Books, 1970

Marilyn Ferguson; *The Brain Revolution: The Frontiers of Mind Research*, Bantam Books, New York, 1975

Marilyn Ferguson; *The Aquarian Conspiracy: Personal and Social Transformation in the 1980's*, Houghton Mifflin, Boston, 1980

Marilyn Ferguson; *The Aquarian Conspiracy: Personal and Social Transformation in the 1980's*, distributed by St Martin's Press, New York, 1980 annotated, page notations inside front cover

Richard P. Feynman; *QED; The Strange Theory of Light and Matter*, Princeton University Press, 1985 annotated

David Foster; *The Intelligent Universe*, G. P. Putnam's Sons, New York, 1975 annotated, page notations inside back cover

Robert Freedman, ed.; *Marx on Economics*, Harvest Book, New York annotated

Erich Fromm; *The Crisis of Psycho-analysis*, Fawcett Premier, Greenwich, CT, 1970 annotated

R. Buckminster Fuller; Eric A. Walker, & James R. Killian, Jr.; *Approaching the Benign Environment*, Collier Books, New York, 1970

R. Buckminster Fuller; *Utopia or Oblivion: The Prospects for Humanity*, Bantam Books, New York, 1973

John Gall; *Systemantics: How Systems Work and Especially How They Fail*, Quadrangle, New York Times Book Co., 1977

George Gamow; *Thirty Years That Shook Physics: The Story of Quantum Theory*, Anchor Books, New York, 1966 annotated

George Gamow; *Thirty Years That Shook Physics: The Story of Quantum Theory*, Dover, New York

- George Gamow; *One Two Three...Infinity: Facts and Speculations of Science*, Bantam Books, New York, 1972
- Howard Gardner; *The Quest for Mind: Piaget, Lévi-Strauss, and the Structuralist Movement*, Vintage Books, New York, 1974 annotated
- Howard Gardner; *The Mind's New Science: A History of the Cognitive Revolution* Basic Books, New York, 1985 annotated, page notations inside back cover
- John W. Gardner; *Morale*, W.W. Norton, New York, 1980 annotated with page notations inside back cover
- Martin Gardner; *Relativity for the Million*, Pocket Books, New York, 1965
- Saul I. Gass, *Linear Programming: Methods and Applications*, McGraw-Hill Book, Co., New York, 1958 annotated
- Murray Gell-Mann; *The Quark and the Jaguar: Adventures in the Simple and the Complex*, W.H. Freeman and Co., New York, 1994 annotated, page notations inside back cover
- W. Gellert, et.al., editors; *The VNR Concise Encyclopedia of Mathematics*, Van Nostrand Reinhold Co., New York, 1977
- F.H. George; *Cybernetics*, St. Paul's House, London, 1971 annotated
- Robert Geroch; *General Relativity from A to B*, University of Chicago Press, 1978
- James Gleick; *Chaos: Making a New Science*, Viking, New York, 1987 annotated with page notations opposite title page
- Brewster Ghiselin; *The Creative Process: A Symposium*, Mentor Book, New York
- Kurt Gödel Collected Works*, vol. I 1929-1936, vol. II 1938-1974, edited by Solomon Feferman, et.al., Oxford University Press, 1986 personal handwritten dedication to John Boyd from Grant Hammond
- Daniel Goleman; *Vital Lies, Simple Truths: The Psychology of Self-Deception*, Simon and Shuster, New York, 1985 annotated with page notations inside back cover
- Brian Goodwin; *How the Leopard Changed Its Spots: The Evolution of Complexity*, Charles Scribner's Sons, New York, 1994 annotated [Colonel Boyd's favorite book]
- Stephen Jay Gould; *Ever Since Darwin: Reflections in Natural History*, W.W. Norton, New York, 1977
- Baltasar Gracian; *The Art of Worldly Wisdom*, translated by Christopher Mauer, Doubleday Currency, New York, 1992 annotated
- Eugene L. Grant and W. Grant Ireson; *Principles of Engineering Economy*, The Ronald Press Company, New York, 1960
- John Gribbin; *Gensis: The Origins of Man and the Universe*, Delacorte Press, New York, 1981

John Gribbin; *In Search of Schrödinger's Cat: Quantum Physics and Reality*, Bantam Books, 1984
2 copies, one annotated

Ray Grigg; *The Tao of Zen*, Charles E. Tuttle, Boston, 1994

Walter F. Hahn and John C. Neff, eds.; *American Strategy for the Nuclear Age*, Anchor Books,
New York, 1960

David Halliday and Robert Resnick; *Physics for Students of Engineering and Science*, part II
second edition, John Wiley & Sons, New York, 1962

Edward T. Hall; *The Silent Language*, Anchor Press, New York, 1973 annotated

Edward T. Hall; *Beyond Culture*, Anchor Books, New York, 1977 annotated with page notations
inside back cover

Nina Hall, ed.; *Exploring Chaos: A Guide to the New Science of Disorder*, W.W. Norton, New
York, 1994

Michael Harrington; *The Twilight of Capitalism*, Touchstone Book, Simon and Schuster, New
York, 1976

William L. Hart; *Calculus*, D.C. Heath and Co., Boston, 1955

Stephen W. Hawking; *A Brief History of the Story of Time: From the Big Bang to Black Holes*,
Bantam Books, New York, 1988 annotated with page notations inside back cover

F.A. Hayek; *The Fatal Conceit: The Errors of Socialism*, edited by W.W. Bartley III, University of
Chicago Press, 1988 annotated

John Heider; *The Tao of Leadership: Leadership Strategies for a New Age*, Bantam Books, New
York, 1986 annotated

Robert L. Heilbroner; *An Inquiry into The Human Prospect*, W.W. Norton, New York, 1974
annotated

Robert L. Heilbroner; *Marxism: For and Against*, W.W. Norton, New York, 1980 2 copies, one
annotated with page notations inside back cover and 2 separate sheets of notes

Werner Heisenberg; *Across the Frontiers*, translated from the German by Peter Heath, Harper &
Row, New York, 1974 annotated with loose page of notes

Werner Heisenberg; *Physics and Philosophy: The Revolution in Modern Science*, Harper
Torchbooks, New York, 1962 annotated

Mark W. Hendrickson; *America's March Toward Communism: Forsaking Our Heritage*,
Libertarian Press, Inc., Spring Mills, PA, 1987

Nick Herbert; *Quantum Reality: Beyond the New Physics*, Anchor Press, New York, 1987
annotated

Mahlon Hoagland; *Discovery: The Search for DNA's Secrets*, Houghton Mifflin, Boston, 1981

Eric Hoffer; *The True Believer: Thoughts on the Nature of Mass Movements*, Perennial Library Harper & Row, New York, 1951 annotated

Douglas R. Hofstadter; *Gödel, Escher, Bach: An Eternal Braid*, Basic Books, Inc., New York, 1979 annotated, page notations inside back cover

Douglas R. Hofstadter; *Metamagical Themas: Questing for the Essence of Mind and Pattern*, Bantam Books, New York, 1986

Franz E. Hohn; *Elementary Matrix Algebra*, Macmillan, New York, 1962 annotated

Gerlad Holton; *Thematic Origins of Scientific Thought: Keppler to Einstein*, Harvard University Press, 1973

John Horgan; *The End of Science: Facing the Limits of Knowledge in the Twilight of the Scientific Age*, Addison-Wesley, Reading, MA, 1996

Fred Hoyle; *Encounter with the Future*, Simon and Schuster, New York, 1965 annotated

Fred Hoyle; *The New Face of Science*, Meridian, New York, 1971 annotated

Alice Huber and Eileen Woods; *New Mathematics and How to Understand It*, Kenworthy Educational Service, Inc., 1964

Edmund Husserl; *Phenomenology and the Crisis of Philosophy*, translated by Quentin Lauer. Harper Torchbooks, New York, 1965

Joe Hymans; *Zen in the Martial Arts*, Bantam Books, New York, 1982

Robert Jastrow; *The Enchanted Loom: Mind in the Universe*, Simon and Schuster, New York, 1981

Julian Jaynes; *The Origin of Consciousness in the Breakdown of the Bicameral Mind*, Houghton Mifflin, Boston, 1982

Sir James Jeans; *Physics and Philosophy*, Dover, New York, 1981

Richard C. Jeffrey; *Formal Logic Its Scope and Limits*, McGraw-Hill, New York, 1967

George Johnson; *Machinery of the Mind: Inside the New Science of Artificial Intelligence*, Microsoft Press, Redmond WA, 1986 annotated

W.P. Jolly; *Electronics*, St. Paul's House, London, 1975

James B. Jones and George A. Hawkins; *Engineering Thermodynamics*, John Wiley and Sons, New York, 1960 annotated

Roger S. Jones; *Physics As Metaphor*, Meridian, New York, 1982 3 copies, one annotated with page notations and notes inside back cover

Dr. Michio Kaku and Jennifer Trainer; *Beyond Einstein: The Cosmic Quest for the Theory of the Universe*, Bantam, New York, 1987 annotated with page notations inside front cover

E. Kamke; *Theory of Sets*, translated by Frederick Bagemihl, Dover, New York

Immanuel Kant; *Critique of Pure Reason*, translated by Norman Kemp Smith, unabridged, St Martin's Press, New York

Marvin Karlins and Lewis M. Andrews; *Biofeedback: Turning on the Power of Your Mind*, Warner, New York, 1973

Edward Kasner and James Newman; *Mathematics and the Imagination*, Simon & Schuster, 1965 annotated

Arnold Kaufmann; *The Science of Decision-making: An Introduction to Praxeology*, translated by Rex Audley, World University Library, McGraw-Hill, New York, 1968

Stuart A. Kauffman; *The Origins of Order: Self-Organization and Selection in Evolution*, Oxford University Press, 1993 annotated with page notation inside back cover

William J. Kaufmann, III; *Black Holes and Warped Spacetime*, Bantam Books, New York, 1980

Joseph H. Keenan and Frederick G. Keyes; *Thermodynamic Properties of Steam*, John Wiley & Sons, New York, 1961

Stephen H. Kellert; *In the Wake of Chaos: Unpredictable Order in Dynamical Systems*, University of Chicago Press, 1993

Kevin Kelly; *Out of Control: The Rise of Neo-Biological Civilization*, Addison-Wesley, Reading, MA, 1994 annotated with page notations inside back cover

Melvin Klerer & Fred Grossman; *A New Table of Indefinite Integrals Computer Processed*, Dover, New York, 1971

Morris Kline; *Mathematics: The Loss of Certainty*, Oxford University Press, 1982 2 copies, one annotated with 3 pages of notes on yellow legal paper

Arthur Koestler; *The Act of Creation*, Dell, New York, 1975 annotated

Arthur Koestler; *Janus: A Summing Up*, Random House, New York, 1978

Arthur Koestler; *Janus: A Summing Up*, Vintage Books, New York, 1979

Stephan Körner; *The Philosophy of Mathematics: An Introductory Essay*, Dover, New York, 1968

Edna E. Kramer; *The Nature and Growth of Modern Mathematics*, vol. 1 & 2, Fawcett Premier, Greenwich, CT, June 1974 volume 2 is annotated

Thomas S. Kuhn; *The Structure of Scientific Revolutions*, 2nd edition, enlarged the Masterpieces of Science, New American Library, New York, 1986

Thomas S. Kuhn; *The Structure of Scientific Revolutions*, 2nd edition, enlarged University of Chicago Press, 1970

Thomas S. Kuhn; *The Structure of Scientific Revolutions*, 2nd edition, enlarged, vol. 2, no. 2 University of Chicago Press, 1970 annotated with comment on inside back cover

- L.D. Landau and G.B. Rumer; *What is Relativity?*, Fawcett Premier, Greenwich, CT, 1968
- Susanne K. Langer; *An Introduction to Symbolic Logic*, 3rd revised edition, Dover, New York, 1967
- Lao Tzu; *The Way of Life*, translation of *Tao te Ching* edited by R.B. Blakney, Mentor Book, New York, 1955 annotated
- David Layzer; *Cosmogenesis: The Growth of Order in the Universe*, Oxford University Press, 1990 page notation inside back cover
- C.T. Leondes; *Control and Dynamic Systems: Advances in Theory and Applications*, vol. 10, Academic Press, New York, 1973
- V.I. Lenin; *Marx-Engels-Marxism*, Foreign Languages Press, Peking, 1978
- George Leonard; *The Silent Pulse*, Bantam Books, New York, 1981 annotated with loose page of notes on yellow legal paper
- Claude Lévi-Strauss; *The Savage Mind*, University of Chicago Press, 1966
- Steven Levy; *Artificial Life: A Report from the Frontier Where Computers Meet Biology*, Vintage Books, New York, 1992
- Roger Lewin; *Complexity: Life at the Edge of Chaos*, Macmillan, New York, 1992 annotated
- David Lindley; *The End of Physics: The Myth of a Unified Theory*, Basic Books, New York, 1993
- Konrad Lorenz; *Behind the Mirror: A Search for a Natural History of Human Knowledge*, translated by Ronald Taylor, Harcourt Brace Jovanovich, New York 2 copies: hardcover published in 1977, paper back published in 1978 paperback annotated, page notations inside back cover with separate sheet of notes
- Michael J. Loux, ed.; *Universals and Particulars: Readings in Ontology*, Anchor Books, New York, 1970
- David McLellan; *Marxism After Marx*, Houghton Mifflin, Boston, 1979
- Nicolò Machiavelli; *The Prince*, translated by Luigi Ricci, Mentor Book, New York annotated with page notations inside back cover
- Nicolò Machiavelli; *The Discourses*, translated by Leslie J. Walker, with revisions by Brian Richardson, Penguin, 1988 annotated
- Klaus Mainzer; *Thinking in Complexity: The Complex Dynamics of Matter, Mind, and Mankind*, Springer-Verlag, Berlin, 1994 annotated
- Maxwell Maltz; *Creative Living for Today*, Essandess Special Edition, New York, 1967
- Maxwell Maltz; *Psycho-Cybernetics: A New Way to Get More Living Out of Life*, Wilshire Book Co., No. Hollywood, CA, 1971 annotated
- Benoit B. Mandelbrot; *The Fractal Geometry of Nature*, W.H. Freeman & Co., New York, 1983

Jakob Mandelker; *Matter Energy Mechanics*, Philosophical Library, New York, 1954

Karl Marx; *Das Kapital*, abridged, Gateway, South Bend, Indiana annotated

Karl Marx; *Capital*, vol. 1, translated by Ben Fowkes, Vintage Books, New York, 1977

Karl Marx; *Grundrisse*, translated by Martin Nicolaus, Vintage Books, New York, 1973

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Box 18

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jump suit

red silk scarf

leather brief case

2 Batori Jet Computer supersonic

type ball from typewriter used to type Patterns of Conflict

leather wallet with Colonel Boyd's discharge papers from the U.S. Army Air Force

plaque -- Major John R. Boyd, aeronautical engineering 1965

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plaque -- 55th Tactical Fighter Squadron

plaque -- Task Force Alpha

The Harold Brown Award, Department of the Air Force presented to Col. John Boyd -- 1974

plaque -- Naval Doctrine Command, presented to Col. John Boyd, Ret. by Radm. F.L. Lewis 21 June 1994

Photographs:

Box 25

Folder 15 -- Polaroid snapshots of Colonel and Mrs. Boyd's living room showing bookcases and Colonel Boyd's favorite chair before shipping material to Quantico

2 -- 3x5 color photographs showing John Boyd leaning against door frame talking to Morly Safer of 60 Minutes and Colonel James G. Burton (USAF)

1 -- Xeroxed image of the photograph from the New York Times showing John Boyd holding a model of the F-16

JRB -- College freshman photograph

JRB -- College graduation portrait

JRB -- As an enlisted man, U.S. Army

JRB -- About to dive into swimming pool

College yearbook photograph of Mary E. Bruce (the future Mrs. Boyd)

JRB and Mary Bruce -- college prom

Wedding photograph -- Mr. and Mrs. John Boyd

John and Mary Boyd cutting the wedding cake

JRB -- climbing out of F-86 cockpit

Official USAF portrait of JRB

Retirement photograph of Colonel Boyd with Secretary of the Air Force John McLucas

JRB in retirement

Folder 2 John Boyd and Pierre Sprey in front of photograph of the F-16 three images of the F-16 in flight

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Addendum

Dr. Grant T. Hammond -- manuscript, biography of John Boyd

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