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Reference Materials - Bibliographies (131)

Innovations in communications, space, medicine, and other technologies are sure to have an impact on the world of tomorrow and the way we view that world. This guide to the literature on future technology is not intended to be a comprehensive bibliography. It is designed to provide the reader with a set of resources that can be used to focus on the topic. The document lists the subject headings used by the Library of Congress in cataloging information on science and technology. It also contains citations of materials categorized as: (1) brief introductions; (2) basic texts; (3) additional titles; (4) handbooks and encyclopedias; (5) other bibliographies; (6) conference proceedings; (7) government publications; (8) abstracting and indexing services; (9) journal articles; (10) technical reports; and (11) additional sources of information. (TW)
The Future: Science & Technology Enter the 21st Century
Compiled by Jan Ezkovich

September 1987

SCOPE: Once the sole territory of fortune tellers and soothsayers, the future is now open to contemplation by everyone. Innovations in communications, space, medicine, and other technologies are sure to have an impact on the world of tomorrow and the way we view that world. Scientists, businesses and governments project future developments by extrapolating from current trends, using methods that range from simple, informed hunches to complex computer analysis. In this way, science fiction becomes science reality.

This guide is intended for those who wish to review what authors in various fields have to say about future technology. Not intended as a comprehensive bibliography, this guide is designed—as the name of the series implies—to put the reader "on target."

BRIEF INTRODUCTIONS


SUBJECT HEADINGS used by the Library of Congress, under which books on future technology can be located in most card, book, and online catalogs, include the following:

TECHNOLOGICAL FORECASTING (Highly relevant)
TECHNOLOGICAL INNOVATIONS (Highly relevant)
TWENTIETH CENTURY—FORECASTS (Highly relevant)
TWENTY-FIRST CENTURY—FORECASTS (Highly relevant)
AGRICULTURAL INNOVATIONS (Relevant)

*Available in the reference collection, Science Reading Room
MEDICAL INNOVATIONS (Relevant)
INVENTIONS (Related)
FORECASTING (More general)
TECHNOLOGY AND CIVILIZATION (More general)

See also subdivisions FORECASTING and TECHNOLOGICAL INNOVATIONS under specific subjects, e.g., TELECOMMUNICATIONS--TECHNOLOGICAL INNOVATIONS, AUTOMOBILES--UNITED STATES--TECHNOLOGICAL INNOVATIONS, FOOD SUPPLY--FORECASTING, CONSTRUCTION INDUSTRY--UNITED STATES--FORECASTING.

Where machine files allow key-word searching, one can locate books with future or twenty-first century in their titles by combining these words with the subject wanted, e.g., metals future, farming twenty-first century.

BASIC TEXTS


Presents projections, based on present-day technology, of life in the future, including how world problems may be overcome and how people may change and extend their environment. Intended for younger readers.


SPECIALIZED TITLES

Agriculture 2000: a look at the future. A study by Columbus Division, Battelle Memorial Institute. Sponsored by the Production Credit Associations on their 50th anniversary. Columbus, Battelle Press, c1983. 183 p. HD1761.A6226 1983*


RELATED TITLES


4


HANDBOOKS, ENCYCLOPEDIAS and DIRECTORIES


"Derived from the fifth issue of the NASA space systems technology model published in early 1984."

Insight, the Marshall Cavendish encyclopedia of science and the future. New York, Cavendish, c1982. 6 v. T47.I57 1982*


BIBLIOGRAPHIES


"A monthly abstract of books, articles and reports concerning forecasts, trends, and ideas about the future."

Current issues available in NACPR.


GOVERNMENT PUBLICATIONS


HC79.E5C59 1980*

KF27.S39 1984e

KF27.S3975 1985b

KF27.S3995 1985d

QB498.2.U6U55 1986 "Serial 0."

CONFERENCE PROCEEDINGS

S583.2.A374 1985

P96.T42C62 1982

"Prepared in conjunction with the fourth General Assembly of the World Future Society, held in Washington, D.C., July 18-22, 1982."

HT119.B23 1984

"Proceedings of a symposium organised by Section X at the annual meeting of the British Association for the Advancement of Science, August 1983."


Essays presented at a symposium held in Tbilisi, USSR, as part of the Unesco programme on research and human needs.


ABSTRACTING AND INDEXING SERVICES that index relevant journal articles and other literature are listed below. Some suggested terms are given as aids in searching.

Applied Science & Technology Index (1913-) Z7913.I7*
See: Forecasts
Technological Change

Business Periodicals Index (1958-) Z7614.C81p983
See: Industrial Research
New Products
Technological Forecasting
Technological Innovations

Electrical & Electronics Abstracts (1903-) Z5833.E37*
See: Technological Forecasting
General Science Index (1978-) Z7401.G46*
   See: Technological Innovations
       Technology
       Products, New

Magazine Index (1976-) Available on film/ROM reader
   See: New Products
       Science--Forecasts
       Technological Forecasting
       Technological Innovations
       Technology and Civilization--Forecasts

   See: Medical Technology
       Space Research
       Space Technology
       Technological Innovations

Readers' Guide to Periodical Literature (1900-) AI3.R45
   See: Forecasting
       Products, New
       Technological Forecasting
       Technological Innovations

Other indexes, listed here, should be used for an exhaustive search. Only a limited return can be expected for the time spent.

Index Medicus (1960-) Z6660.I42*
   See: Technology Assessment, Biomedical--Trends
       Technology, Medical--Trends
       Technology, Pharmaceutical--Trends
       Technology, Radiologic--Trends

International Aerospace Abstracts (1961-) TL500.I57*
   See: Research & Development
       Technological Forecasting
       Technology Assessment

JOURNALS that often contain articles relevant to future technology are

   Future Generations Computer Systems: FGCS QA75.5.F87
   Futures HR3730.F8
   Futures Research Quarterly Unbound issues in N4CPR
   Futurics: a Quarterly Journal of Futures Research CB161.F793
   The Futurist: a Journal of Forecasts, Trends, and Ideas About the Future CB158.F88
   Technological Forecasting and Social Change T174.T38

Note: Consult reference librarian for location of abstracting and indexing services in the Science Reading Room.
REPRESENTATIVE JOURNAL ARTICLES

Q1.S383

CB158.F88

QA75.5.F87

AP2.0452

Q124.6.I85

AP2.A833

AP2.S477

HB3730.F8

Q1.S354

N&CRPR

HB3730.F8

CB161.F793

AP2.0452

TECHNICAL REPORTS and other types of literature are indexed in the following guides:

Government Reports Announcements & Index (1946-) 27916.G78*
See: Technological Forecasting
Technology Forecasting
Technology Utilization