This guide to the literature on cellular radio 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 cellular radio. 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. (TN)
CELLULAR RADIO
Compiled by George D. Havas

SCOPE: Geographic areas in which there is much mobile radio telephone activity have been subdivided into smaller units, called cells (hence the name cellular), graphically represented as a honeycomb pattern. Each cell has its own receiver-transmitter which receives calls from mobile radio telephones in its area and transmits them to a telephone center, from which they can be routed to regular telephones, or to other mobile units. Calls from stationary telephones to mobile units are, likewise, transmitted from telephone central through the cell's receiver-transmitter. Fast computers make the operation possible by switching, or routing, the calls to open, available, communication channels, or frequencies, and by switching the calls of the moving units from one cell's receiver-transmitter to a neighboring one as they travel along, thereby providing stronger signals and optimal reception. This guide lists information sources pertaining to cellular radio which are available in the collections of the Library of Congress. Not intended to be a comprehensive bibliography, this compilation is designed—as the name of the series implies—to put the reader "on target."

INTRODUCTIONS


*Available in reference collection, science Reading Room


Includes a paragraph and bibliography about United States rules and standards pertaining to cellular radio.

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

CELLULAR RADIO (Highly relevant)
CELLULAR RADIO EQUIPMENT INDUSTRY (Highly relevant)
MOBILE COMMUNICATIONS SYSTEMS (Relevant)
MOBILE RADIO STATIONS (Relevant)
RADIO SUPPLIES INDUSTRY (More general)

BASIC TEXTS


RELATED TEXTS


MARKET SURVEYS


DIRECTORY


CONFERENCE PROCEEDINGS


IEEE Vehicular Technology Conference (35th, 1985, Boulder, Colo.).

"85CH2037-0."


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-) Z7913.17*

See: Radio Telephone, Portable--Cellular Systems
Land Mobile Radio Services

Computer & Control Abstracts (Science Abstracts--Series C) (1966-)
QA76.C548*

See: Cellular Radio

Electrical & Electronic Abstracts (Science Abstracts--Series B)
(1898-) Q1.S3* and Z5833.E37*

See: Cellular Radio
Mobile Radio Systems
Telecommunication--Radio Links and Equipment--Mobile Radio Systems

Engineering Index (1884-) Z5851.E62*

See: Radio Systems, Mobile--Cellular Technology

Magazine Index (Jan. 1982-) Available on film/ROM reader
See: Cellular Radio
Mobile Communication Systems
Radiotelephone

Note: Consult reference librarian for location of abstracting and indexing services in the Science Reading Room
Readers' Guide to Periodical Literature (1900-) A13.R45
See: Cellular Radio

JOURNALS that often contain articles on cellular radio are

Communications News TK5101.A1C64
Datapro Reports on Telecommunications, v. 3 Computer shelf*
IEEE Transactions on Communications TK5101.A112
IEEE Transactions on Vehicular Technology TK7882.M6I2
Radio-Electronics TK6540.R34
Telocator TK6570.M6T45

REPRESENTATIVE JOURNAL ARTICLES


Lilly, Susan. Cellular modems can transmit data anywhere. PC week, v. 3, Jan. 7, 1986: 135. QA75.5.P37


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

Government Reports Announcements & Index (1946-) Z7916.G78*
See: Cellular Radio
Mobile Communication Systems

Scientific and Technical Aerospace Reports (1963-) TL500.S35*
See: Mobile Communication Systems
SELECTED TECHNICAL REPORTS


SELECTED MATERIALS available in the Science Reading Room pamphlet boxes include:


Includes a list of cellular telephone vendors, with addresses and telephone numbers, and detailed, organized information and specifications of forty-one cellular telephone models.

For latest update, see Datapro notebook in Science Reading Room.


**Available in microform collection, Science Reading Room


Users are increasing and prices are dropping as cellular phone service continues its growth. Communications news, v. 23, Aug. 1986: 40.

AN ADDITIONAL SOURCE OF INFORMATION

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