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A SELECTED LIST
OF ENGINEERING
REFERENCE BOOKS, ABSTRACTS,
AND INDEXES PREPARED
FOR THE
ARAB REPUBLIC OF EGYPT

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NOTE: None of the annotative information included in this volume is the work of King Research, Inc. All annotations supplied were extracted from sources listed herein.

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INTRODUCTION

This volume represents a core list of engineering reference books, abstracts, and indexing publications. For this compilation, titles of English-language books only have been included, with heavy American emphasis. Given the vast amount of published material in the field of engineering, items have been selected in order to provide basic coverage of the field. No obvious attempt has been made to present only the "best" of the sources available. Rather, in many cases, they are merely representative of their type. Because scientific and technical information must be up-to-date, the primary criterion for inclusion is that the reference be a current source of information. Therefore, few titles published prior to 1965 have been included.

Engineering is that field of science which can be applied to help develop ways to economically solve a country's environmental and technological problems. Currently, Egypt is involved in numerous engineering-related projects^{1,2,3} which have been instituted to solve priority development problems. To name a few, these include the construction of gas turbine generator plants, design and construction of grain silos, rehabilitation of municipal electric power systems, municipal water and sewage facilities, modernization of the telecommunications sector, low-cost housing and reconstruction, irrigation and drainage systems, corrosion in the petroleum industry, biogas technology, instrumentation technology, among others. There are many fields within the engineering discipline which are concerned with these and other R&D problems. The primary areas addressed in this volume include aerospace, agricultural, chemical, civil, electrical, energy, environmental, industrial, mechanical, nuclear, and transportation engineering. Since engineering deals with all aspects of the physical world, classifications included in this list are not mutually exclusive, but frequently overlap with other fields of science such as physics, chemistry, and mathematics. For example, a large number of references concerned with irrigation and drainage are found in the agricultural core list, whereas materials dealing with sewage and water pollution are found in the core list on medicine and public health. Topics about computers

¹Clinton A. Stone, August Kehr, Nicolaas Luykx and James Marion. Applied Science and Technology Research: Evaluation Report. AID Project 263-0016. Washington, D.C.: Agency for International Development, May 1980.

²International Development Cooperation Agency. Near East: Project/Program Loans and Grants Authorized FY 1980 and Earlier. Washington, D.C.: Agency for International Development, Bureau for Near East, December 1979.

³Richard F. Nyrop. Area Handbook for Egypt. Washington, D.C.: American University, 1976.

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and computer science are dealt with separately in the volume on science and technology. Also, secondary publications such as Chemical Abstracts and Physics Abstracts have been listed under chemistry and physics only, although both are highly relevant to engineering collections as well.

This list is divided into reference books and abstracting and indexing publications. When appropriate, reference books are divided by type of material, such as handbooks, dictionaries, encyclopedias, and textbooks. Reference books which are listed under the category "Books" are loosely defined as any book that is likely to be consulted for factual information more frequently than it will be picked up and read through in sequential order. Entries within each division or subdivision are arranged alphabetically by title, except in some cases where the order has been disrupted due to additions or substitutions. Book entries contain basic bibliographic information, while the secondary source entries contain annotative information about scope and coverage.

The most fundamental reference tools used for identifying reference books were the guides, bibliographies, and bibliographic essays to the literature. Such lists were particularly valuable in that they were compiled by science bibliographers, librarians with subject expertise, or other subject specialists within specific scientific disciplines. The reference sources used are listed below.

- A Basic Collection for Scientific and Technical Libraries.
Effie B. Lunsford and Theodore J. Kopkin. New York: Special Libraries Association, 1971.
- Books for College Libraries. Volume V: Psychology, Science, Technology.
2nd ed. Chicago: American Library Association, 1975.
- "Civil engineering: A Reference Guide."
Sarojini Balachandran. Reference Services Review 5:2:21-26.
(April/June 1977).
- Guide to Basic Information Sources in Engineering.
Ellis Mount. New York: John Wiley & Sons, 1976.
- Reference Collection of the Engineering Societies Library: A Supplement to the 1970 Bibliography. New York: Engineering Societies Library, 1979.
- Reference Sources in Science and Technology.
Earl James Lasworth. Metuchen, New Jersey: Scarecrow Press, 1972.
- Science and Engineering Literature.
H. Robert Malinowsky, et al. Littleton, Colorado: Libraries Unlimited, 1976.

- Science and Technology: An Introduction to the Literature.
Dennis Grogan. Hamden, Connecticut: Linnet Books, 1976.
- Scientific and Technical Information Sources.
Ching-Chih Chen. Cambridge, Massachusetts: MIT Press, 1972.
- Scientific, Engineering and Medical Societies Publications in Print; 1978-1979. James M. Kyed and James M. Matarazzo. New York: R.R. Bowker Company, 1979.
- "State of the art survey of reference sources in engineering."
Sarojini Balachandran. Reference Services Review 7:4
(October/December 1979).
- "State of the art survey of reference sources in engineering."
Sarojini Balachandran. Reference Services Review 6:4:25-28
(October/December 1978).
- "State of the art survey of reference sources in engineering."
Sarojini Balachandran. Reference Services Review 5:4:21-35.
(October/December 1977).
- University Science and Engineering Libraries: Their Operation, Collections and Facilities. Ellis Mount. Westport, Connecticut: Greenwood Press, 1975.
- Use of Engineering Literature.
K.W. Mitchen, editor. Boston: Butterworths, 1976.
- Walford's Guide to Reference Material. Volume I: Science and Technology.
Fourth edition. Edited by A.J. Walford. London: The Library Association, 1980.

Other sources used to supplement the above lists include Technical Book Review Index¹, Reference Sources², Scientific and Technical Books in Print³, and Choice⁴. Items in the enclosed list which were not extracted from a published core list or evaluative reference tool are so indicated by a single asterisk (*). We emphasize here that the goal of this and the other core lists is not to present a comprehensive, overall picture of scientific and technical literature. Rather, our goal is to provide a quantitative method whereby individual library collections can be checked against a reliable list generated from well-known sources of evaluative and/or descrip-

¹Technical Book Review Index. Special Libraries Association, New York: 1935- Monthly. Printed excerpts from reviews in scientific, technical, medical and trade journals. Probably the best source of information for the evaluation of S&T books.

²Reference Sources. Linda Mark. Ann Arbor, Michigan: Pierian Press, 1977 - Annual. Annual cumulation of books and reference books reviewed in Reference Services Review.

³Scientific and Technical Books in Print, 1980. New York: R.R. Bowker Company, 1979.

⁴Choice. Middleton, Connecticut, 1965 - Monthly. Book selection journal of "best books" in science and technology, humanities, social sciences, etc.



tive bibliographic information. The coverage statistics which are observed will then be used as an input to determining costs for individual libraries to fill the gaps between what is relevant and held and what is relevant and not held.

INSTRUCTIONS

The purpose of this list is to help you assess the completeness of your reference collection. For each book and secondary source on the list, we need to know if the item is relevant (desireable) or not relevant (not desireable) to your collection or your library users' needs. If a title is relevant, please write the code "1" in the box adjacent to it if it is in your collection. Please write a "2" if the item is relevant, but is not in your collection. If the item is not relevant, please write the code "3" in the box adjacent to it.

ENGINEERING REFERENCE BOOKS

SUBFIELD HEADINGS

(Engineering Books)

- Aerospace Engineering
- Agricultural Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Energy Engineering
- Engineering - Geology
- Environmental
- General Engineering and Engineering Fundamentals
- Industrial Engineering
- Lubrication Engineering
- Materials Engineering
- Mechanical Engineering
- Nuclear Engineering
- Transportation Engineering
- Engineering Miscellaneous

AEROSPACE ENGINEERING

BOOKS

1. *Aerodynamics Aeronautics & Flight Mechanics.
Barnes W. McCormick. 1979. text ed. 25.95 (ISBN 0 471-03032-5). Wiley.
2. *Aerospace Propulsion.
D.G. Shepard. 1972. 35.00 (ISBN 0-444-00126-3). Elsevier.
3. *Basic Science for Aerospace Vehicles.
Northrop Institute of Technology. 3rd ed. 1963. text ed. 11.95
(ISBN 0-07-047480X). McGraw.
4. *Basic Science for Aerospace Vehicles.
4th ed. 1973. text ed. 15.95. (ISBN 0-07-047484-2). McGraw.
5. *Dictionary of Aeronautical Engineering.
J.L. Nayler. 6.00 (ISBN 0-685-28351-8). Philos Lib.
6. Guide to the literature on aerospace engineering.
American Society for Engineering Education. Engineering School Libraries
Division. Compiled by J.C. Rowe. Washington, the Society, 1971. [iii],
9 p. \$1.
7. *Introduction to Flight: Its Engineering & History.
John D. Anderson, Jr. (Illus.). 1978. text ed. 21.95 (ISBN 0-07-001637-2);
solutions manual 2.95 (ISBN 0-07-001638-0). McGraw.
8. *Jet, Rocket, Nuclear, Ion & Electric Propulsion.
W.H. Loh. LC 68-26005. (Applied Physics & Engineering Ser.: Vol. 7).
1968. 59.10. (ISBN 0-387-04053-6). Springer-Verlag.
9. *Nuclear Engineering for Satellites & Rockets.
Horst Loeb. (Illus.). 1970. 13.50. (ISBN 3-521-06053-5). Intl Pubns
Serv.
10. *Power Systems for Space Flight.
M.A. Zipkin & R.N. Edwards, eds. (Progress in Astronautics & Aeronautics
Ser.: Vol. 11). 1963. 23.50 (ISBN 0-12-535111-9). Acad pr.
11. *Principles of Spaceflight Propulsion.
E.M. Goodger. LC 77-88306. 1970. 17.75 (ISBN 0-08-013884-5). Pergamon.
12. *Progress in Aerospace Sciences.
J.A. Bagley & P.J. Finley, eds. Vol. 17, No. 4. LC 74-618347. 1977.
pap. text ed. 17.50. (ISBN 0-08-021254-9). Pergamon.
13. *Progress in Aerospace Sciences.
Vol. 18, No. 1. LC 74-618347. 1977. pap. text ed. 20.00. (ISBN
0-08-022133-5). Pergamon.

AEROSPACE ENGINEERING (Cont'd)

HANDBOOKS

14. *Aircraft Pocket Reference Library.
William Green. 8 vols. 1964. pap. 7.95 boxed ISBN 0-685-56064-3).
Beachcomber Bks.
15. Aviation Electronics Handbook.
E. Safford. Blue Ridge Summit, PA: TAB Books, 1975.
16. Handbook of Astronautics.
N. Ya. Kondrat'ev and V.A. Odinstov. Translated by R. Hardin Jerusalem:
Program for Scientific Translations, 1968.
17. Handbook of Satellites and Space Vehicles.
Robert P. Haviland and C.M. House, eds Princeton, NJ: Van Nostrand,
1965.

DICTIONARIES

18. Aviation and Space Dictionary. 5th ed.
Ernest J. Gentle and Lawrence W. Reithmaier, eds. Fallbrook, CA: Aero,
1974.
19. *Daoud's Aviation Dictionary.
Hesham O. Daoud. 1972. pap. 6.50 (ISBN 0-911720-55-3, Pub. by
Daouds). Aviation.
20. *Elsevier's Dictionary of Aeronautics.
A.F. Dorian & J. Osenton. (Polyglot). 1964. 73.25 (ISBN 0-444-40177-6).
Elsevier.
21. Glossary of Aeronautical and Astronautical Terms.
Standards Institution, 1964-1970.
22. Glossary of Aeronautical Terms.
Federation Aviation Administration. Washington, DC: US Government
Printing Office, 1975.
23. Space-age acronyms, abbreviations and designations.
R.C. Moser. 2nd ed., rev. and enl. New York, London, etc., IFI/Plenum
Press, 1969. [ix]. 534 p. illus.
24. The Language of Space: A Dictionary of Astronautics.
Reginald Turnill. New York: John Day, 1971.
25. The New Dictionary and Handbook of Aerospace: With Special Section on the
Moon and Lunar Flight. Robert W. Marks, ed. New York: Praeger, 1969.

AEROSPACE ENGINEERING (Cont'd)

ENCYCLOPAEDIA

- 26. *Air Systems Encyclopedia.
49.50 (ISBN 0-686-14987-4). Gov. Data Pubns.
- 27. McGraw-Hill Encyclopedia of Space.
New York: McGraw-Hill, 1968. 831 pp.
- 28. The Encyclopedia of space.
Advisory editor, Maurice Allward. London, Hamlyn 1968. xii, 831 p.
illus., diags., maps.
- 29. *The Illustrated Encyclopedia of General Aviation.
Paul Garrison. (Modern Aviation Ser.). (Illus.). 1979. 14.95 (ISBN
0-8306-9754-3); pap. 9.95 (ISBN 0-8306-2274-8, 2274). TAB Bks.
- 30. The new space encyclopaedia; a new guide to astronomy and space research.
MT. Bizony, ed. [3rd ed.]. Horsham, Sussex, Artemis Press, 1969. 316,
[1]p. illus., diags, tables, maps.

AGRICULTURAL ENGINEERING

BOOKS

- 31. Agricultural Engineering: A Dictionary and Handbook.
Arthur W. Farrall and Carl F. Albrecht. Danville, IL; Interstate, 1965.
- 32. Food engineering operations.
J.G. Brennan and others. Ed.2. Barking, Applied Science, 1976.
532 p. \$30.
- 33. Food engineering; principles and selected applications.
Marcel Loncin & R.L. Merson. New York, Academic, 1979. 494 p. \$44.
LC 78-31231.
- 34. Food engineering systems.
Arthur W. Farrall. v.1. Westport, CT, Avi, 1976. 615 p. \$46.
- 35. International Directory of Agricultural Engineering Institutions.
1973. 537 pp. Up-to-date material collected from 115 countries. \$17.00.
- 36. Introduction to Agricultural Engineering.
H.F. McColly and J.W. Martin. McGraw-Hill, 1955. 553 pp. \$13.50.

HANDBOOK

- 37. Agricultural Engineers' Handbook.
C.B. Richey, P. Jacobson, and C.W. Hall, eds. McGraw-Hill, 1961.
880 pp. \$28.50.

ENCYCLOPAEDIA

- 38. Encyclopedia of Hydraulics, Soil & Foundation Engineering.
Ernst Vollmer. New York; American Elsevier, 1967.

DICTIONARIES

- 39. A Dictionary of Plants Used by Man.
George Usher. New York: Hafner, 1974.
- 40. Dictionary of Gardening. 2nd ed.
Frederick J. Chittenden and P.M. Synge, ed. Oxford: Oxford University
Press, Clarendon Press, 1969.

CHEMICAL ENGINEERING

BOOKS

41. Advances in biochemical engineering.
edited by T.K. Ghose and others. v.4. New York, Springer, 1976.
172 p. \$24.60.
42. *Advances in Chemical Engineering.
Thomas B. Drew and John W. Hoopes. Vol. 10. (Serial Publication). 1978
35.00 (ISBN 0-685-99220-9). Acad Pr.
43. *Basic Principles & Calculations in Chemical Engineering.
David M. Himmelblau. 3rd ed. (P-H Int'l Series in Physical & Chemical
Engineering Sciences). (Illus.). 1974. ref. ed. 22.95 (ISBN 0-13-
066472-3). P-H.
44. Chemical Engineering Practice. 12 v.
Herbert W. Cremer. New York; Academic Press, 1956-1965.
45. *Chemical Reaction Engineering.
Kenneth B. Bischoff, ed. LC 72-84256. (Advances in Chemistry Ser.:
No. 109). 1972. 45.50. (ISBN 0-8412-0149-8). Am Chemical.
46. Corrosion.
L.L. Shreir, ed. London, Newnes, 1963. 2 v. diagrs., tables, charts.
(2nd ed. 1976. 2v. (2,300p.). £55).
47. Fabric Almanac. 2nd ed.
M. Klapper. New York: Fairchild, 1971.
48. Introduction to corrosion prevention and control for engineers.
P.J. Gellings. Delft, D. lft University, 1976. 138 p. Dfl. 31.20.
LC 77-357351.
49. *Mathematical Methods in Chemical Engineering. 2nd ed.
V.G. Jenson & G.V. Jeffreys, eds. 1978. 24.75 (ISBN 0-12-384456-8).
Acad Pr.
50. *Physical Principles of Chemical Engineering.
Peter Grassman. 1971. text ed. 67.50 (ISBN 0-08-012817-3). Pergamon.
51. Thermodynamic and Thermophysical Properties of Combustion Products.
Vols. 1- . Jerusalem: Program Scientific Translations, 1975- .

DICTIONARIES

52. Concise Chemical and Technical Dictionary. 3rd edition.
H. Bennett, ed. London; Arnold, 1975.

CHEMICAL ENGINEERING (Cont'd)

DICTIONARIES (Cont'd)

53. Dictionary of Chemistry and Chemical Engineering. 2 v.
Louis DeVries, comp. New York; Academic, 1971, 1973. 2 vols.
54. *Dictionary of Chemistry, Including Chemical Engineering & Fundamentals of Allied Sciences. 2 vols. Richard Ernst. Incl. Vol. 1. German-English. 3 ed. 1968; Vol. 2. English-German. 4th ed. 1969. LC 76-390463. 37.50 ea. Intl Pubns Serv.
55. Elsevier's Dictionary of Chemical Engineering. 2 vols.
W.E. Clason, comp. New York: American Elsevier, 1968.

ENCYCLOPAEDIA

56. Chemical and Process Technology Encyclopedia.
Douglas M. Considine, ed. New York: McGraw-Hill, 1974.
57. Chemical Technology: An Encyclopedia Treatment.
New York; Barnes & Noble, 1968. v. 2, 1970.
58. *Encyclopedia of Chemical Processing & Design.
John L. McKetts. Vol. 1. 1976. 95.00 (ISBN 0-8247-2401-1). Dekker.
59. Encyclopedia of Chemical Technology. 2nd ed.
R.E. Kirk and D.F. Othmer, editors. New York; Wiley, 1963- . 22 vols., plus supplements issued irregularly.
60. Encyclopedia of Chemistry.
Clifford Hampel and G.G. Hawley, eds. 3rd ed. New York: Van Nostrand Reinhold, 1973. 1216 pp.
61. Encyclopedia of Industrial Chemical Analysis.
Edited by Foster D. Snell and others. New York, Wiley, 1966-1974. 20 v.
62. Kingzett's Chemical Encyclopaedia: A Digest of Chemistry and Its Industrial Applications. 9th ed. Charles Thomas Kingzett. New York; Van Nostrand Reinhold, 1966.

HANDBOOKS

63. Biological Stains: A Handbook on the Nature and Use of the Dyes Employed in Biological Laboratory. 8th ed. Harold Joel Conn. Baltimore: William & Wilkins, 1969.

CHEMICAL ENGINEERING (Cont'd)

HANDBOOKS

- 64. Adhesives: Guidebook and Directory.
Park Ridge, NJ: Noyes Data, 1976. Annual.
- 65. Chemical Engineer's Handbook. 5th ed.
Robert H. Perry and Cecil H. Chilton, eds. New York: McGraw-Hill, 1973.
- 66. Chemical Technology Handbook.
Robert L. Pecsok, Kenneth Chapman and Wade H. Ponder, eds. Washington,
DC: American Chemical Society, 1975.
- 67. Corrosion resistant material's handbook.
Ibert Mellan. Ed.3. Park Ridge, NJ.
- 68. Handbook of analysis of organic solvents.
Vaclav Sedivec & J. Flek. Chichester.
- 69. Handbook of biological wastewater treatment; evaluation, performance,
and cost. Henry H. Benjes, Jr. New York, STPM Garland. 1979. 181 p.
\$19.95. LC 79-12394.
- 70. Handbook of Reactive Chemical Hazards.
L. Bretherick. London: Butterworth, 1975.
- 71. Handbook of Thin Film Technology.
Leon I. Maissel and Reinhard Glang, eds. New York: McGraw-Hill, 1970.
- 72. Mining chemicals handbook.
American Cyanamid Comapany. Wayne, NJ, Author, 1976. 111 p. (Mineral
dressing notes, no. 26.).
- 73. Riegel's Handbook of Industrial Chemistry. 7th ed.
James Kent, ed. New York: Van Nostrand Reinhold, 1974.

CIVIL ENGINEERING

BOOKS

- 74. American Society of Civil Engineers Directory.
1976. New York, 1976.
- 75. Architectural and engineering concrete masonry details for building construction. A. Elmiger. McLean, VA, National Concrete Masonry Association, 1978. 112 p. \$6.50. paper.
- 76. Civil Engineer's Reference Book.
L.S. Blake. 3rd ed. London: Butterworth, 1975.
- 77. Civil Engineering Reference Book. 4 v.
J. Comrie. London: Butterworth, 1961.
- 78. Concrete Bridge Design.
Robert Rowe. New York, Wiley, 1962. 340 p. Illus. plates. Diagr. Tables.
- 79. Construction cost engineering.
Anghel Patrascu. 542 Stevens Ave., Solana Beach, CA, 92075. Craftsman Book Co, 1979. 304 p. \$12.75. LC 78-11161.
- 80. Construction Manual: Concrete and Formwork.
T.W. Love. Solana Beach, CA: Craftsman, 1973.
- 81. Construction Sealants and Adhesives.
John Philip Cook. New York: Wiley-Interscience, 1970.
- 82. Energy conservation standards for building design, construction, and operation. Fred S. Dubin & C.G. Long Jr. New York, McGraw-Hill, 1978. 413 p. \$22.50. LC 78-6189.
- 83. Engineering of large dams. 2 v.
Henry H. Thomas. New York, Wiley, 1976. 776 p. £35 set. LC 75-15886.
- 84. Foundation Engineering.
G.A. Leonards, editor. New York, McGraw-Hill, 1962. 1,136 p. Illus. Diagr. Maps.
- 85. *Geology for Civil Engineers.
Adam McLean & Colin Gribble. (Illus.). 1979. text ed. 29.95x (ISBN 0-685-94491-3); pap. text ed. 14.95x (ISBN 0-685-94492-1). Allen Unwin.
- 86. High-rise building structures.
Wolfgang Schueller. New York, Wiley, 1977. 247 p. \$22.50. LC 76-28734.
- 87. Highway research in progress.
U.S. Highway Research Board, National Research Council, National Academy of Sciences, National Academy of Engineering. Washington, 1971. 3 v. (1772 p.).

CIVIL ENGINEERING (Cont'd)

BOOKS (Cont'd)

88. Manual for Maintenance Inspection of Bridges. 2nd edition.
Washington, DC: American Association for State Highway and Transportation
Officials, Operating Subcommittee on Bridges and Structures, 1974.
89. Manual of Concrete Practice. 3 v.
Detroit: American Concrete Institute, 1972-1975.
90. Manual of Precast Concrete Construction with Large Reinforced Concrete and
Prestresses Concrete Components: Design, Analysis, and Construction.
3 v. T. Koncz. New York: Adler, 1968-1971.
91. Manual of Structural Design and Engineering Solutions.
M.E. Walmer. Englewood Cliffs, NJ: Prentice-Hall, 1972.
92. Manual of Surface Drainage Engineering.
B.Z. Kinovi. New York: American Elsevier, 1970.
93. Methods and materials of residential construction.
Alonzo Wass. Ed.2. Englewood Cliffs, NJ. Prentice-Hall, 1976.
336 p. \$13.50.
94. Planning and Estimating Dam Construction.
A.D. Parker. New York, McGraw-Hill, 1971. \$27.50.
95. Probability, Statistics, and Decisions for Civil Engineers.
Jack R. Benjamin and C. Allin Cornell. New York, McGraw-Hill, 1970.
96. Roadwork technology.
J.H. Arnison. London, Iliffe, 1967. 3 v. (8,148 p.; 8,163 p.).
illus., tables.
97. Structural Steel Detailing. 2nd edition.
New York: American Institute of Steel Construction, 1971.
98. The Engineering of Large Dams. 2 v.
Henry H. Thomas. New York, Wiley, 1976. \$90.00.
99. Wind effects on buildings and structures.
Keith J. Eaton, ed. New York, Cambridge University, 1977. 845 p. \$55.
100. Wind effects on structures; an introduction to wind engineering.
Emil Simiu & R.H. Scanlan. New York, Wiley, 1978. 458 p. \$27. LC
77-21192.

CIVIL ENGINEERING (Cont'd)

DICTIONARIES

101. A Dictionary of Civil Engineering.
John S. Scott. 2nd rev. ed. Harmondsworth, Middlesex, England: Penguin Books, 1965.
102. British Standard glossary of highway engineering terms.
British Standards Institution. London, the Institution, 1969. 87 p. diags. (BS 892: 1967). £7.80.
103. Concise Encyclopedic Dictionary of Civil Engineering.
R. Hammond. Amsterdam, Elsevier Publishing, 1968.
104. Construction Dictionary.
National Association of Women in Construction. Phoenix, Arizona, 1973.
105. Definitions of Surveying and Associated Terms.
Manual and Report on Engineering Practices, no. 34. New York: American Society of Civil Engineers, 1972.
106. Dictionary of Architectural Abbreviations, Signs and Symbols.
New York, Odysey, 1965.
107. Dictionary Architecture and Construction.
C.M. Harris. New York: McGraw-Hill, 1975.
108. Dictionary of Building. 2nd ed.
John S. Scott. Baltimore: Penguin Books, 1974.
109. Dictionary of Civil Engineering.
Robert Hammond. London: Newnes, 1965. Brief definitions of commonly encountered terms.
110. Dictionary of Civil Engineering Abbreviations, Signs and Symbols.
New York, Odyssey, 1967.
111. *Dictionary of Civil Engineering & Construction Machinery & Equipment. 2 vols. 1976-78. plastic bdg. 90.00x ea. Vol. 1. Ger-Eng (ISBN 3-7625-0502-0). Vol. 2. Eng-Ger (ISBN 3-7625-0950-6). Intl Pubns Serv.
112. Dictionary of Water Engineering.
A. Nelson and K.D. Nelson. Cleveland, Ohio, CRC Press, 1973.
113. Directory of International Engineering and Construction Services.
National Constructors Association. Washington, 1968.
114. International Dictionary of Building Construction.
English-French-German-Italian. New York, McGraw-Hill, 1972.

CIVIL ENGINEERING (Cont'd)

ENCYCLOPAEDIA

- 115. Builders Encyclopedia.
Harry F. Ulrey. Indianapolis, Audel, 1970. 593 p. Illus.
- 116. Encyclopedia of Energy Efficient Building Design: 391 Practical Case Studies. Environmental Design & Research Center, 940 Park Square Bldg., Boston, MA, 1977. \$150.00.
- 117. Encyclopaedia of hydraulics, soil and foundation engineering.
E. Vollmer, comp. Amsterdam, London, New York, Elsevier, 1976. [viii], 398 p. illus. tables. £9.73.
- 118. Encyclopedia of Urban Planning.
Arnold Whittick, editor. New York: McGraw-Hill, 1973. 1,200 pp.
- 119. Illustrated Encyclopedic Dictionary of Construction Manual. 2nd ed.
Hugh Brooks. NY: Wiley, 1974. \$17.50.

HANDBOOKS

- 120. Building Construction Handbook. 3rd ed.
Frederick S. Merritt. New York: McGraw-Hill, 1975.
- 121. Cement Engineer's Handbook. 3rd ed.
O. Labahn. Wiesbaden W. Germany: Bauverlag, 1971.
- 122. Concrete Construction Handbook. 2nd edition.
Joseph J. Waddell, editor. New York: McGraw-Hill, 1974.
- 123. Concrete Reinforcing Steel Institute CRSI Handbook. 2nd edition.
Chicago, 1975.
- 124. Construction Inspection Handbook.
James J. O'Brien. New York: Van Nostrand Reinhold, 1974.
- 125. Data Book for Civil Engineers: Design. 3rd ed. 3 vols.
Elwyn Seelye. New York: Wiley, 1957-1960.
- 126. Equipment Design Handbook for Refineries and Chemical Plants. 2 vols.
Frank L. Evans, Jr. Houston: Gulf, 1971-1974.
- 127. Foundation Engineering Handbook.
Hans F. Winterkorn and Hsai-Yang Fang, eds. New York: Van Nostrand Reinhold, 1975.

CIVIL ENGINEERING (Cont'd)

HANDBOOKS (Cont'd)

128. Handbook of building security planning and design.
Peter S. Hopf, ed. New York, McGraw-Hill, 1979. 576 p. \$34.50.
LC 78-21636.
129. Handbook of Construction Management and Organization.
J.B. Bonny. New York: Van Nostrand Reinhold, 1973.
130. Handbook of Concrete Engineering.
Mark Fintel, ed. New York: Van Nostrand Reinhold, 1974.
131. Handbook of Dam Engineering.
Alfred R. Golze, editor. New York, Van Nostrand Reinhold, 1977. \$40.00.
132. Handbook of Environmental Civil Engineering.
Robert G. Zilly, editor. New York: Van Nostrand Reinhold, 1975.
133. Handbook of Heavy Construction. 3rd edition
John A. Harvers. New York, McGraw-Hill, 1976. \$35.00.
134. Handbook of Highway Engineering.
Robert F. Baker, ed. New York: Van Nostrand Reinhold, 1975.
135. Handbook of Housing Systems for Designers and Developers.
L.S. Cutler and S.S. Cutler. New York, Van Nostrand Reinhold, Co.,
1974. \$17.95.
136. Handbook of Hydraulics. 6th edition.
Ernest F. Brater and H.W. King. New York, McGraw-Hill, 1976. 608 p.
LC 76-6486 ISBN 0-07-007243-4. \$26.50.
137. Handbook of Mechanical Specifications for Buildings and Plants: A
Checkbook for Engineers and Architects. Robert H. Emerick, editor.
New York: McGraw-Hill, 1966. 482 pp.
138. Handbook of Sturctural Design.
I.E. Morris. New York, Reinhold Publishing Co., 1963. \$33.00.
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543. *Introduction to Transportation Planning. rev. ed.
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558. Applied optics and optical engineering.
Robert R. Shannon & J.C. Wyant, ed. New York, Academic, 1979.
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559. Automobile engineering.
Luton Public Library, 1969. [vii], 129 p. (Technical bulletin no. 70).
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561. Dock and harbour engineering. 2nd ed.
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564. Technical reference book of compressed air terms and standards. 5th ed.
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565. The efficient use of energy.
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571. McGraw-Hill Encyclopedia of energy.
Daniel N. Lapedes editor-in-chief. New York, London, etc., McGraw-Hill,
1976. 785 p. illus., charts. \$24.50.
572. The illustrated encyclopedia of motorcycles.
E. Tragatsch, ed. London, New York, etc., Hamlyn, 1977. 320 p. illus.
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573. Broadcast engineering & maintenance handbook.
P.S. Finnegan. Blue Ridge Summit, Pa., TAB Books, 1976. 532 p.
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574. Casting design handbook.
Metals Parks, Ohio, American Society for Metals, 1962. xviii, 326 p.
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575. Electrical engineering handbook.
Berlin, Siemens Aktiengesellschaft; London, Hayden, 1976. xii, 750 p.
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576. Energy technology handbook.
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illus., diagrs., tables, charts. £34.45.
579. Handbook of Engineering in Medicine and Biology.
David G. Fleming and Barry N. Feinberg, eds. Cleveland: Chemical
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580. Handbook of metal treatment and testing.
R.B. Ross. London, Spon, 1977. xviii, 467 p. tables. £15.
581. Handbook of ocean and underwater engineering.
J.J. Myers. New York, London, [etc.], McGraw-Hill, 1969. 1070 p.
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582. Handbook of refrigerating engineering. 4th ed.
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583. How to Save Energy and Cut Costs in Existing Industrial and Commercial
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584. Hydraulic handbook.
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Trade & Technical Press. [1972], xii, 791 p. illus. (6th ed. [1977].
xii, 787 p. £24.90).
585. Piping handbook. 5th ed.
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586. Pneumatic handbook. 4th ed.
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diagrs., tables. 16.
587. The solar energy handbook. 3rd ed.
H.C. Landa, and others. Milwaukee, Wisc., FICOA/SECOA [Film Instruction
Co. of America/Solar Energy Engineering Co. of America], 1975. v.p.
588. The Radio communication handbook. 5th ed.
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(xvi, 464 p., xii, 324 p.). illus., diagrs., tables. £15.54.
589. Welding handbook. 5th - 7th ed.,
American Welding Society. Edited by A.L. Phillips. New York, the Society,
1963-. Section 1- illus., diagrs., tables.

ENGINEERING
ABSTRACTS & INDEXES

ABSTRACTS AND INDEXES

590. Applied Mechanics Reviews. 1948-
Published monthly by the American Society of Mechanical Engineers.

Applied Mechanics Reviews is "a critical review of the world literature in applied mechanics and related engineering science." The signed abstracts are critical as well as informative and are arranged in six sections under 54 sub-headings. The main headings are rational mechanics and math methods, automatic control, mechanics of solids, mechanics of fluids, heat and combined fields. There is usually a feature article, with an extensive bibliography, in each issue. Publications indexed are journals (about 1000), technical reports, conference proceedings and books. An author index is included and this cumulates annually. In 1972 the annual subject index was replaced by a subject tabulation which is merely a guide to the broad subject headings used in the monthly issues. This is much less satisfactory than the previous subject index and is of little use to the retrospective searcher. A list of books reviewed appears each month and, although useful, some of the book reviews are rather long.⁵

591. Applied Science and Technology, 1958-
New York: H.W. Wilson Company. Monthly except July with quarterly and annual cumulations. Supersedes in part Industrial Arts Index, 1913-1957, and continues its numbering.

Emphasizes both theoretical aspects of sciences and their engineering applications. Slight overlap with British Periodicals index and Engineering Index.

Covers: Aeronautics, automation, chemistry, electricity and electronics, engineering, geology and metallurgy, industrial and mechanical arts, physics, transportation, etc. List provided on cover of monthly issues and quarterly cumulations. Aimed at laymen, high school and college students.

Scope: English-language journals.^{1,3,6}

592. ASCE Publications Abstracts.
New York: American Society of Civil Engineers, 1966- [Bimonthly]

This publication contains indicative abstracts of all papers appearing in all the ASCE journals and in Civil Engineering. It covers the fields of engineering mechanics, hydraulics, irrigation, sanitary engineering, soil mechanics and foundations, surveying and mapping, urban planning, and general civil engineering. The tables of contents are reproduced, with a separate subject index and separate citations (in 3 X 5 inch format), for those who wish to clip and file. It also has author indexes but no cumulative indexes.²

593. Atomindex. Vols. 1-.
Vienna: International Nuclear Information System, 1970-. Semimonthly.

Volumes 1-10 published under title: List of Bibliographies on Nuclear Energy. With the discontinuation of Nuclear Science Abstracts on June 30, 1976, Atomindex and ERDA Research Abstracts became the major sources of information on the subject, as gleaned from research reports, books, journal literature, etc. The work is international in scope, the result of a cooperative effort between ERDA and the International Nuclear Information System. Indexed similarly to NSA, including personal and corporate-author, subject, and report-number indexes.⁴

ABSTRACTS AND INDEXES

(Continued)

594. Bioengineering Abstracts.
New York: Engineering Index, 1975. Monthly.

Selected material for professionals in bioengineering and related fields. Up-to-date, concise information. Scans some 2,000 core journals, conference papers and reports, industrial activities, etc.⁴
595. British Technology Index, 1962-.
Library Association, London. Monthly with annual cumulations. Supersedes in part in the Subject Index to Periodicals.

An alphabetical subject index to articles in British technical journals.

Coverage: All phases of engineering and chemical technology and manufacturing processes are covered. Also includes the chemistry and physics of man-made objects and industrial processes, instruments and articles on the chemistry of individual substances. Does not cover industrial economics except for articles of mixed technical-economic character. In the field of management, the policy is to include only material on such physical and statistical techniques as work study, ergonomics and operational research. The biological sciences are not covered; however, borderline subjects such as the production, technology and chemistry of food, drugs and pesticides are covered while the physiological chemical aspects are excluded.^{1,4}
596. Building Science Abstracts, 1928-.
Great Britain. Ministry of Technology. London: Her Majesty's Stationery Office.

Indicative abstracts are given for selected periodical articles. The work considers construction materials as well as techniques and operations and has annual author and subject indexes.²

ABSTRACTS AND INDEXES

(Continued)

597. Civil Engineering Hydraulics Abstracts, 1976-
Bedford, England: British Hydromechanics Research Associations, 1960-
Monthly.
- More oriented to the applications of fluid mechanics to civil and structural engineering than either Engineering Index or Oceanic Abstracts. Worldwide coverage of hydraulics as it pertains to coastal and ocean waters, instrumentation, etc.⁴
598. Concrete Abstracts. Vols. 1- .
Detroit: American Concrete Institute, 1973-. Bimonthly.
- Volume 3, 1974. Covers primary literature. Keyword index.⁴
599. Corrosion Abstracts, 1962-
Houston, Texas: National Association of Corrosion Engineers. Bimonthly.
- Arranged by subject with subject indexes. Covers testing, characteristic corrosion phenomena, corrosive environments, preventive measures, materials, equipment, industries, etc.
- Scope: International.^{1,4}
600. Current Papers in Electrical and Electronics Engineering. v.1- .
London, Institution of Electrical Engineers, 1964- . Monthly.
- Contains references to every item abstracted in Electrical and Electronics Abstracts. Current Papers lists items in the same classification scheme. As a listing, rather than an abstracting service, it appears much sooner and hence serves the purpose of current awareness.³
601. Electrical and Electronic Abstracts. Vols. 1- .
London: Institution of Electrical Engineers, 1898- . Monthly.
- Section B of Science Abstracts. Over 40,000 items per year are abstracted from 89 core journals from 13 countries as well as secondary. Author and subject indexes. Supplemented by Current Papers in Electrical and Electronics Engineering.
- Covers engineering, mathematics and materials science, electromagnetic fields, instrumentation and special applications, power systems and applications. (IEEE is the major abstracting service in the field).^{4,6}
602. Electronics and Communications Abstracts Journal. v. 1-.
Riverdale, Md., Cambridge Scientific Abstracts, Inc., 1967- . 10 issues per year
- An international abstracting service covering electronic physics, electronic systems, electronic circuits, electronic devices, and communications. Indexed sources are periodicals, government reports, conference proceedings, books, dissertations and patents. Approximately 5,000 items per annum are abstracted.³

ABSTRACTS AND INDEXES

(Continued)

603. Engineering Index, 1884-
New York: Engineering Index, Inc. Monthly with annual cumulations. Previous title: Descriptive Index of Current Engineering Literature.
- Engineering's first and most comprehensive English-language collection of abstracts in engineering, and all its subdisciplines. Scans and abstracts reports, patents, books, symposium papers, and articles from over 3,500 journals.
- Covers: Engineering, technical and applied science and the functions of research, testing, design, construction, maintenance, etc. Includes Mechanical electrical and civil engineering, including such marginal subjects as geology, chemicals and chemical processes; optics; personnel; public works, regional and city planning; sugar; textiles; and wood and wood products.
- Scope: International.1,4,6
604. Fluid power abstracts: world-wide coverage of hydraulics and pneumatics literature.
Cranfield, Bedford, British Hydromechanics Research Association, Fluid Engineering, 1960-. v.1-. Monthly. 25.25 pa.
- 1970: 1,597 indicative and informative abstracts. Sections: General - Hydraulics (application; equipment) - Pneumatics (applications; equipment). Quarterly and annual author and subject indexes. Over 400 technical journals scanned. "Fluid power roundup" precedes abstracts. Available on magnetic tape.⁶
605. Fluidics Feedbacks; Abstracts, Reviews, Industrial News, Products, Patents: A Monthly Review of the World of Fluidics. v. 1-
Cranfield, Bedford, England, British Hydromechanics Research Association, 1967-Monthly.
- An excellent specialized bibliographic and reporting service in hydraulic engineering, surveying the world's primary literature and producing circa 800 abstracts each year. Annual subject, personal, and corporate author indexes, Its several sections cover circuits and circuit components, general topics, devices of moving parts, non-moving part devices, applications, and new products.³

ABSTRACTS AND INDEXES

(Continued)

606. Highway Research Abstracts, 1931-
U.S. Highway Research Board, National Research Council, National Academy of Sciences, National Academy of Engineering.
- A guide to current literature for the highway administrator and engineer.
- Covers highway transportation and related subjects including accidents, air pollution, bridges, cement, drainage, mass transportation, planning, design, vibration, etc. (Annual subject index).
- Scope: International.^{1,4}
607. HRIS Abstracts, 1968-
Washington, D.C.: Highway Research Information Service Highway Research Board, Division of Engineering, National Research Council, National Academy of Sciences, National Academy of Engineering.
- Includes contributions from various U.S. government agencies, the National Safety Council, American Society of Civil Engineers, universities, state highway departments, Transport and Road Research Laboratory (Crowthorne, England, the English Language Center for International Road Research Documentation), Roads and Transportation Association of Canada.
- Covers: Transportation administration, finance and economics, photogrammetry, highway, pavement and bridge design, materials, maintenance, safety, control, etc.¹
608. ICE Abstracts. 1974-
- This new publication from the Institution of Civil Engineers fills what has been a serious gap in the abstracting services for civil engineering. Civil engineers now have an abstracting journal devoted solely to their subject which appears ten times a year (monthly except August and December) and covers the publications of the Institution of Civil Engineers, the American Society of Civil Engineers, the American Concrete Institute, the Prestressed Concrete Institute and the Water Pollution Control Federation. In addition, articles from about 100 European journals are abstracted by qualified engineers. ICE Abstracts may be obtained on microfiche or on computer tapes, but is produced in A5 format for general use. It remains to be seen whether or not the present coverage is wide enough to satisfy the needs of the practising civil engineer in view of the surprising exclusion of journals published outside Europe, with the exception of those produced by the institutions in the USA previously mentioned.⁵
609. IMM Abstracts, 1950-
London: Institution of Mining and Metallurgy. Bimonthly.
- The index deals with mining, extraction metallurgy, mineral dressing and economic geology. It is arranged by a subject classification system, and all items have annotations that are often more informative than indicative in style. Coal and ferrous extraction metallurgy are not covered.^{2,4}

ABSTRACTS AND INDEXES

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610. Index Aeronauticus: Journal of Aeronautical and Astronautical Abstracts.
London: Ministry of Aviation, 1945-1968. Monthly.
- Abstracts the contents of approximately 500 journals, and arranges them by universal decimal classification. Also included is a list of translations. Annual subject and author indexes.⁴
611. International Aerospace Abstracts. Vols. 1-.
New York: American Institute of Aeronautics and Astronautics, 1961-. Semi-monthly.
- Continues Aeronautical Engineering Index, 1947-1957; Aerospace Engineering Index, 1958; and Aero/Space Reviews, 1959-1960.
- A worldwide abstracting service issued alternately with STAR. Covers periodicals, books, meeting papers, translations, and proceedings in the field of aeronautics, and space science and technology. Author, subject, report-number, and accession-number indexes are issued quarterly, semiannually, and annually.⁴
612. Key Abstracts. Vols. 1-.
London: Institution of Electrical Engineers; New York: Institute of Electrical and Electronics Engineers, 1976-. Monthly.
- There are 6 monthly parts: Key Abstracts: Solid State Devices; Key Abstracts: Electronic Circuits; Key Abstracts: Systems Theory; Key Abstracts: Communication Technology; Key Abstracts: Power Transmission and Distribution; Key Abstracts: Industrial Power and Control Systems.
- Designed for individual use by R&D specialists and for smaller, specialized companies and libraries, each Key Abstract is drawn from the INSPEC database and covers only the most important worldwide developments within its specific subject discipline - no more than 250 items in each issue. Issues are restricted to 24 pages and contain complete bibliographic information.⁴
613. Metals Abstracts, 1968-
London: Institute of Metals and the American Society for Metals. Monthly.
- The 25,000 or so abstracts produced per annum are a reflection of the wide international coverage of about 1000 journals, reports, monographs and conference proceedings. Covers all aspects of the science and practice of metallurgy and related fields. Annual cumulative author and subject indexes.^{3,5}
614. Nuclear Science Abstracts. Vols. 1-33 (no. 12).
Washington, D.C.: U.S. Energy Research and Development Administration, 1948-June 30, 1976. Semimonthly.
- Prior to February 1975, issued by Atomic Energy Commission. Abstracts the technical report literature sponsored by the AEC and other government agencies, universities, and foreign research establishments. It also provides international coverage of patents, books, periodical articles, translations, etc., in nuclear science and technology. Complete bibliographic information as well

ABSTRACTS AND INDEXES

(Continued)

as corporate, personal-author, subject, and report-number indexes. Ordering procedures also available. Arranged under 21 main headings and many subdivisions. Has been replaced by ATOMINDEX.⁴

615. Referativnyi zhurnal.
Akademiya Nauk SSSR, Institut Nauchnoi Informatsii. Moscow, VINITI, 1953.
- The most comprehensive abstracting service in existence, providing c.1,000,000 abstracts pa. In 1966 it covered 21,000 periodicals and serials, 6,000 monographs and 11,000 patent specifications and standards, - material published in 110 countries in over 60 languages. Abstracts appear up to 6-7 months after publication of the original article. Annual subject indexes commonly arrive very late. The Polar record (v. 11, no. 70, January 1962. p. 81-83) has paid tribute to the high standard of accuracy in printed non-Russian references. If a table, diagram or map is essential to the comprehension of a paper, it is reproduced in the abstract. Duplication between the various series is sensibly permitted.⁶
616. Road Abstracts, 1934-1968.
Crowthorne Berks: Technical Information and Library Group. Road Research Laboratory.
- A review of world literature on roads and traffic. Covers all aspects of roads and traffic including construction, bridges, tunnels, pertinent geological, climatological, hydrological and economic material road layout, parking accidents and safety measures and other relevant material. Now superseded by International Road Documentation Scheme (Paris, OECD; English language version. Crowthorne, Berks, Transport and Road Research Laboratory, 1965-).^{4,6}
617. Road Documentation for Developing Countries.
Crowthorne, Berks, Transport and Road Research Laboratory Overseas, 1973-.
- About 600 abstracts, covering highway planning, design, construction and maintenance, traffic engineering and road safety.⁶

REFERENCES

1. Abstracts and Indexes in Science and Technology: A Descriptive Guide.
Dolores B. Owen and Marguerite M. Hanchey. Metuchen, New Jersey:
The Scarecrow Press, 1974.
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