Industrial Design

Find Books on Industrial Design Topics: Here are some examples of **subject** searches in ADDISON:

Art and industry
Automobiles – design and
    construction
Barrier free design
Chair design
Color in design
Commercial products
Computer aided design
Decorative arts
Design
Design – history
Design - methodology
Design, Industrial
Design, Industrial – history

Design, Industrial – management
Engineering – social aspects
Engineering design
Furniture design
Glass
Green products
Human engineering (ergonomics)
Human factors
Industrial designers
Inventions
Inventors
Marketing research
Materials

Medical instruments and apparatus -
    Design and construction
New products
Packaging - design
Patents – handbooks, manuals, etc.
Plastics – design
Product management
Prosthesis -- Design and construction
Research, Industrial
Sporting goods -- Design and
    construction
Technological innovations
Tools -- Design and construction

You can also try **keyword** searches in Addison. Here are a few examples:

Italian industrial design
fire prevention equipment
medical devices design

If you know the name of the designer, design firm, or company try an **author** and/or subject search. For example:

Herman Miller
Dreyfuss, Henry
Boym, Constantin

If you know the exact title of a book (or journal), try a **title** search in Addison:

Curious Boym: Design Works
Workspheres: Design and Contemporary Work Styles
Ottagano

Browsing the Stacks

There are areas of the library that have books and journals specific to the industrial design field, however, you will find a wealth of material in areas *not* specific to industrial design (medicine, education, marketing, etc.) that will inform your design work. Use your imagination and keep an open mind when conducting research on your topic!

NK1- (9990) **Decorative Arts** (including furniture design, design history and design-in-general)

TS1- (2301) **Manufactures** (including product design)

Find Articles on Industrial Design Topics Here is a *selected* list of library-provided databases that contain citations and possibly full-text articles related to industrial design (Available to VATech community only). To access these databases from the University Library's homepage (http://www.lib.vt.edu) click on the "articles/databases" link.

Interlibrary Loan If you want to obtain an article or conference proceeding that the University Libraries do not own, try requesting the item from Interlibrary Loan/ILLIAD http://www.ill.vt.edu/ You can request many other types of items not owned by the libraries, including books, videos, and thesis/dissertations.

- **ABI/Inform Global (online & full-text):** Covers business and management topics. Includes citations to articles in over 1000 journals in business, management, finance, and economics. Abstracts coverage is from 1971 to the present. Full-text coverage is from 1991 to the present. Full text available for 500+ journals. Use the "Topic

Finder" to track articles on product design, package design, design engineering, product life cycle, product acceptance, and MUCH more.

▪ **Art Full Text:** Citations back to 1984, with full text as far back as 1997. Subjects include antiques, archaeology, architecture & architectural history, art history, contemporary art, costume, crafts, decorative arts, folk art, graphic arts, **industrial design**, interior design, landscape architecture, motion pictures, museology, non-western art, painting, photography, pottery, sculpture, television, textiles, video art, etc.

▪ **Compendex:** The *Comprehensive Engineering Index* online. Coverage is from 1970 to the present.

● **CSA Illumina – Arts & Humanities Database Search:** CSA Illumina allows searching across the following databases – *Art Bibliographies Modern, Avery Index to Architectural Periodicals, Design and Applied Arts Index,* and *Bibliography of the History of Art.* These databases may also be searched individually.

　o **ARTbibliographies Modern (ABM)** provides full abstracts of journal articles, books, essays, exhibition catalogs, PhD dissertations, and exhibition reviews on all forms of modern and contemporary art, with more than 13,000 new entries being added each year. Entries date back as far as the late 1960s. ABM is the premier source of information on modern and contemporary arts dating from the late 19th century onwards, including photography since its invention. It includes abstracts of English and foreign-language material on famous and lesser-known artists, movements, and trends.

　o **Avery Index to Architectural Periodicals** offers a comprehensive listing of journal articles on architecture and design, including bibliographic descriptions on subjects such as the history and practice of architecture, landscape architecture, city planning, historic preservation, and interior design and decoration. It contains more than 440,000 thousand entries surveying over seven hundred American and international journals. These include not only scholarly and popular periodical literature, but also publications of professional associations, American state and regional periodicals, and the major serials on architecture and design of Europe, Asia, Latin America, and Australia.

　o The **Bibliography of the History of Art (BHA)** covers the current international literature on the history of art. BHA surveys the visual arts and material culture from late antiquity to the present. Included are both the fine arts (architecture, sculpture, painting, drawing and prints) and decorative and applied arts (popular art, folk art). BHA indexes and abstracts 1,400 journals, as well as books, conference proceedings, essays, exhibition catalogues, selected art dealers' catalogues, doctoral dissertations and microform publications. Abstracts are in either French or English and the thesaurus for data from 1990 is in both languages. BHA incorporates the complete contents of International Repertory of the Literature of Art (RILA) and Repertoire d'Art et d'Archeologie (RAA).

　o The **Design and Applied Arts Index (DAAI)** contains over 130,000 annotated references from more than 500 design and craft journals and newspapers published from 1973 onwards, and data on over 50,000 designers, craftspeople, studios, workshops, firms etc., making it the largest index of its kind in the world. Research articles are covered, along with topical news items, conference and seminar reports, and book, video and exhibition reviews.

▪ **Ergonomics Abstracts Online:** Abstracts to articles and books **c**overing ergonomics and human factors, with information on mainstream ergonomics as well as related material from psychology, physiology, biomechanics, job design, human-computer interaction, safety science, human engineering, medicine, occupational health, sport and transport. 1985 to present.

▪ **Factiva:** Factiva (formerly known as Dow Jones Interactive) provides full-text access to 8000 magazines, trade journals, newspapers and newswires as well as company and industry reports and web sites. Factiva is optimized for use with Internet Explorer 5.01 or higher on Windows operating systems, and may not function properly, or at all, with Netscape browsers or Macintosh operating systems.

▪ **Grove Dictionary of Art Online (full-text):** More of an online encyclopedia than an index, The Dictionary of Art contains 45,000+ full-text signed articles on a vast range of visual arts, architecture and design topics from prehistory through the present.

▪ **Infotrac Onefile:** The interdisciplinary nature of industrial design research may require you to search indexes outside the fields of art and architecture. Infotrac is an index that covers a wide variety of disciplines and includes some full-text to five major newspapers, 89 newswires, general interest periodicals and refereed academic journals.

- **LexisNexis Academic:** Access to over 1 billion full-text documents covering a wide variety of subjects. Search for documents in these broad areas: News, Business, Legal Research, Medical, and Reference.

- **LexisNexis Statistical:** Indexing and abstracts to statistical reports from U.S. federal and state governments, or from privately published, international, or intergovernmental sources.

Journal List: This is a *selected* list of industrial design publications the University Libraries currently receive. All titles are located in the Art and Architecture Library, unless otherwise noted. Check Addison, the online library catalog for specific holding information. A complete list of journals held at the Art and Architecture Library is available online at: http://www.lib.vt.edu/services/branches/artarch/currents_list.pdf

Architektur & Bau Forum	TS149 B34x
Appliance Design	Available online from the e-journals database
Applied Ergonomics	Available online from the e-journals database
Artifact	Available online from the e-journals database
Design Book Review	NA2599.9 D47
Design Engineering	TS1 D4 (Newman Library)
Design Issues	NK1160 D45
Design News	TA175 D4
Domus	N4 D6
Ergonomics	Available online from the e-journals database
Form (Stockholm)	TS171 A1 F6
Form (Germany)	TS149 F6
ID	TS1 I515
Idea	
Innovation: The Journal of the Industrial Designers Society of America	TS171 A1 I54
Journal of Engineering Design	TA174 J68 (Newman Library); also available online from Addison or the e-journals database
Journal of Sustainable Product Design	Available online from the e-journals database
Medical Design News	Available online from the e-journals database
Metropolis	N6535 N5 M47
Ottagano	NA4 O8
Product Design and Development	Available online from the e-journals database
Product News Network	Available online from the e-journals database

Product Catalogs and Patents
- **Thomas Register:** http://www.thomasregister.com Latest print copy available at Newman Library (T12 T6 Reference)
- **US Patent and Trademark Office Database Search:** http://www.uspto.gov/patft/

Thesis and Dissertations
- **Dissertation Abstracts Online:** Dissertations and theses from institutions in the North America and Europe. (Link from the library homepage, under "Online Resources".)

- **VATech Electronic Thesis and Dissertations:** http://scholar.lib.vt.edu/theses/

Conference Papers & Proceedings

- **PapersFirst:** An index of papers presented at conferences worldwide. Coverage is from 1993 to the present. (Link to PapersFirst from the University Libraries website: http://www.lib.vt.edu)

- **ProceedingsFirst:** Index of worldwide conference proceedings. Coverage is from 1993 to the present. (Link to ProceedingsFirst from the University Libraries website: http://www.lib.vt.edu)

- **Search for conference proceedings in Addison** by doing a SUBJECT SEARCH in ADDISON for your topic along with the word "congresses". For example:

    - Green products -- Design and construction -- Congresses

Find Background Information on designers, specific products, movements, etc.
What Is…? Who Is/Was…?

- ***Artspeak: A Guide to Contemporary Ideas, Movements, and Buzzwords, 1945 to the Present.*** Atkins, Robert. 2nd ed. New York: Abbeville Press Publishers, 1997. (N6490 A87 1997 ART/ARCH REF) Using the categories *who*, *when*, *where* and *what* the author presents a glossary of ideas, movements and terminology from the post-1945 world of art. Also includes cross-references and a handy timeline of movements.

- ***ArtSpoke: A Guide to Contemporary Ideas, Movements, and Buzzwords, 1848-1944.*** Robert Atkins. New York: Abbeville Press, 1993. (N6447 A85 1993 ART/ARCH REF) Same format as *ArtSpeak*, but for an earlier period.

- ***Contemporary Designers.*** Sara Pendergast, editor. 3rd ed. Detroit: St. James Press, 1996. (NK1390 C655 1996 ART/ARCH REF) Entries provide in-depth biographical information on important contemporary designers from a variety of design fields including industrial design.

- ***The Conran Directory of Design.*** Stephen Bayley, ed. New York: Villard Books, 1985. (NK1165 C6 1985 ART/ARCH REF) Includes several introductory essays on major developments in the modern period, in addition to entries listed alphabetically by designer/firm name, movement or type of product. Index of product types is also provided at the end of this directory.

- ***The Design Encyclopedia.*** Mel Byars. New York: Wiley, 1994. (NK1370 B93 1994 ART/ARCH REF)

- ***Design of the 20th Century.*** Charlotte & Peter Fiell. New York: Taschen, 1999. (NK1390 F525 1999 ART/ARCH REF) A small (in size) A-Z catalogue packed with entries describing specific objects, designers, styles, and periods. Coverage is mostly of North America and Europe. Many entries include cross references and provide ample reproductions in color with some in black-and-white. A timeline is presented at the end of the book. A nice companion to ***Industrial Design A-Z*** (TS171 F54 2000 ART/ARCH REF)**.**

- ***Dictionary of 20th-Century Design.*** John Pile. New York: Facts on File, 1990. (NK1390 P53 1990 ART/ARCH REF) In addition to biographical entries, this work offers descriptions of periods, styles, movements, and materials and techniques particular to design. Also lists museums, design schools, and organizations.

- ***Directory of Industrial Designers.*** Industrial Designers Society of America. (TS171 A1 I49315 current year in ART/ARCH REF)

- ***Glossary of Art, Architecture, & Design Since 1945.*** Walker, John A. 3rd ed., rev. and enl. Boston: G.K. Hall, 1992. (N34 W34 1992 ART/ARCH REF) Similar to ***Artspeak*** this is a glossary of terms in the art and design fields that includes harder to find and perhaps forgotten descriptions of movements, buzzwords and concepts such as the "Grey Organization (GO)" and "Unexpressionism".

- ***Industrial Design A-Z.*** Charlotte & Peter Fiell. Koln; London: Taschen, 2000. (TS171 F54 2000 ART/ARCH REF) Concise entries describe over 300 designers and design firms/companies (including Airstream, Charles Babbage, Braun, Thomas Crapper, Lamborghini, and Phillipe Starck). Each entry is complimented by color and/or black and white photos of the work described. Case studies of ubiquitous items such as the iron, bicycle and television along with a timeline are included at the end.

- ***Landmarks of Twentieth-Century Design: An Illustrated Handbook.*** Kathryn B. Hiesinger and George H. Marcus. New York: Abbeville Press, 1993. (NK1390 H44 1993 ART/ARCH) Entries describe 400 objects considered landmarks of twentieth-century design.

- ***Studio Dictionary of Design & Decoration.*** Robert Harling, ed. New York, Viking Press, 1973. (NK1165 S78 1973 ART/ARCH REF)

- ***The Penguin Dictionary of Design and Designers.*** Simon Jervis. London: A. Lane, 1984. (NK1165 J474 1984 ART/ARCH REF) Provides brief biographies of leading designers from 1450 to the 1980's. Emphasis is on the decorative arts (ceramics, furniture, glass, metalwork, textiles, etc.) from Europe and North America.

- ***The Thames and Hudson Encyclopaedia of 20th Century Design and Designers.*** Guy Julier. New York, N.Y.: Thames and Hudson, 1993. (NK1390 J85 1993 ART/ARCH REF) Includes brief descriptions of important publications, exhibitions, schools, terms, concepts, movements, modes of production, influential materials and techniques as well as biographical information on important designers.

Know Your History: Selected Writings on the History of Industrial Design

- ***100 Designs, 100 Years: Innovative Designs of the 20th Century.*** Mel Byars with Arlette Barre-Despond. New York, N.Y.: RotoVision, 1999. (TS171 B92 1999 ART/ARCH)

- ***300 Years of Industrial Design: Function, Form, Technique, 1700-2000.*** Adrian Heath, Ditte Heath, Aage Lund Jensen. New York: Watson-Guptill, 2000. (TS171.4 H4 2000 **ART/ARCH)**

- ***History of Industrial Design.*** 3 volume set. Milan: Electa, 1990-1991. (TS171 H57 1990 ART/ARCH)

- ***Icons of Design: The 20th Century.*** Volker Albus, Reyer Kras, Jonathan M. Woodham, ed.; New York: Prestel, 2000. (TS171 I26 2000 ART/ARCH)

- ***Industrial Design.*** John Heskett. London; New York: Thames and Hudson, 1980. (TS171 H47 1980b ART/ARCH)

- ***Industrial Design Reader.*** Gorman, Carma, ed. New York: Allworth Press, 2003. (TS171.4 I573 2003 ART/ARCH)

- ***Industrial Design: Reflection of a Century.*** Jocelyn de Noblet, ed. Paris: Flammarion, 1993. (TS171.4 I573 1993 ART/ARCH)

- ***Objects of Desire: Design and Society Since 1750.*** Adrian Forty. New York, N.Y.: Thames and Hudson, 1992. (TS57 F67 1992 ART/ARCH)

- ***Women Designers in the USA, 1900-2000: Diversity and Difference.*** Pat Kirkham, ed. New Haven, CT: Yale University Press, 2000. (NK1404 W66 2000 ART/ARCH REF)

Find Images: Many of the dictionaries, encyclopedias, books and websites listed in this handout include images relating to industrial design. Here are some additional image resources:
- **Getty Images:** http://www.gettyimages.com/
- **Google Image Search:** http://www.google.com/
- **Image Finder (UC Berkeley):** http://sunsite.berkeley.edu/ImageFinder/
- **Library of Congress Prints and Photographs Portfolio 5: Architecture, Design, and Engineering:** http://lcweb.loc.gov/rr/print/guide/port-5.html
- **S.P.I.R.O.:** An online catalog of UC Berkeley's Architecture Slide collection of over 200,000 images in architecture and design. http://shanana.berkeley.edu/spiro/

Organizations & Professional Associations
- **Advanced Design Institute:** http://www.advanceddesign.org/
- **American Institute of Graphic Arts:** http://www.aiga.org/
- **Architects, Designers and Planners for Social Responsibility:** http://www.adpsr.org/
- **Association of Professional Design Firms:** http://www.apdf.org/
- **Association of Women Industrial Designers:** http://www.awidweb.com/
- **Centre for Sustainable Design:** http://www.cfsd.org.uk/

- **Design Council:** http://www.design-council.org.uk/design/
- **Design for the World:** http://www.designfortheworld.org/
- **Design Management Institute:** http://www.designmgt.org/dmi/html/index.htm
- **Design Research Society:** http://www.drs.org.uk/
- **Ergonomics Society:** http://www.ergonomics.org.uk/
- **Graphic Artists Guild:** http://www.gag.org/
- **Illuminating Engineering Society of North America:** http://www.iesna.org/
- **Industrial Designers Society of America:** http://www.idsa.org/
- **Organization of Black Designers:** http://www.core77.com/OBD/index.html
- **Raymond Loewy Foundation International:** http://www.raymondloewyfoundation.com/
- **Society for Environmental Graphic Design:** http://www.segd.org/

- **Associations Unlimited (online):** Information on associations, including 23,000 U.S. national associations, 19,000 international associations, 102,000 U.S. regional, state and local associations, and 300,000 U.S. 501(c) nonprofit organizations. Link from the University Libraries homepage, under "catalogs, directories, reference".

Design Writing & Research: Why Designers Need to Know How to Write and Write Well

Here are just a few examples of the types of writing that you will likely need to do (and do quite effectively) during your design career:

Annual reports	Marketing correspondences
Articles	Promotional copy
Brochures	Research reports
Cover letters for job applications	Speeches
Design award applications	

Writing and Research Guides

Architectural Research Methods. Linda Groat and David Wang. New York: J. Wiley, 2002. (NA2000 G76 2002 ART/ARCH; there are two copies – one on Reserve and another in the stacks) Offers a good overview of research strategies including qualitative, correlational, experimental, quasi-experimental, simulation and modeling research. Also includes a section on ethnography.

Design Research: Methods and Perspectives. Brenda Laurel, editor. Cambridge, Mass. : MIT Press, 2003. (TA174 .D483 2003 ART/ARCH)

Real World Research: A Resource For Social Scientists and Practitioner-Researchers. Colin Robson. Oxford, UK ; Madden, Mass.: Blackwell Publishers, 2002. (H62 R627 2002 NEWMAN)

Surviving Your Thesis. Burton, Suzan and Peter Steane. New York: Routledge, 2004. (LB2369 S89 2004 Newman) This book takes you through the entire process of thesis production, from developing a research proposal to preparing your work for publication.

Universal Principles of Design. William Lidwell, Kritina Holden, Jill Butler. Gloucester, Mass.: Rockport, 2003. (NK1165 .L53 2003 ART/ARCH) In an A-Z format, provides short explanations of a wide range of research methods, tools, and theories that can be applied to design. "From the 80/20 rule to chunking, from baby-face bias to Ockham's razor, and from self-similarity to storytelling, 100 design concepts are defined and illustrated for readers to expand their knowledge." (NK1165 L53 2003 ART/ARCH)

Writing for Design Professionals: A Guide to Writing Successful Proposals, Letters, Brochures, Portfolios, Reports, Presentations, and Job Applications for Architects, Engineers, and Interior Designers. Stephen A. Kliment. New York: W.W. Norton, 1998. (NA1996 K57 1998 ART/ARCH) While geared specifically for architects, engineers and interior designers, most of the text is applicable to the industrial design field. A wide variety of scenarios is explored, from writing cover letters and formal e-mail correspondence, to writing marketing brochures and portfolios.

Citation and Style Manuals Online (including MLA): http://www.lib.vt.edu/find/eref/toc/citation.html

Need Help? Please consult a librarian. Heather Ball the Librarian for the College of Architecture and Urban Studies at Virginia Tech and can be reached via e-mail: h.ball@vt.edu, or by phone: (540) 231-9272.