

# Library Resources for Civil and Environmental Engineering

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Civil Engineering Subject Guide: <http://www.lib.virginia.edu/brown/guides/s-civil.htm>

Brown Science and Engineering Library Web Page: <http://www.lib.virginia.edu/brown/>

University of Virginia Libraries Web Page: <http://www.lib.virginia.edu/>

Engineering Students Library Handbook <http://www.lib.virginia.edu/science/sts/libguide.pdf>

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## VIRGO Online Catalog and More

VIRGO is the gateway to all books and journals owned by the UVA libraries, full text for many journals and books, access to online journal article databases, interlibrary loan and delivery services, online reference sources, reserves, purchase request form, user status information, hours and policies, recalls and renewals, stacks guides, etc. The catalog is both keyword and LC subject searchable. Tables of contents, reviews and other information for many items are included in VIRGO as well and are also keyword searchable.

Civil and environmental engineering and related material can be found in many UVA libraries but is concentrated in the Brown Science and Engineering Library in Clark Hall. Generally, civil and environmental engineering materials fall in the HE, QE, and TA-TH classification ranges, but you should always use VIRGO to obtain the exact classification numbers for desired items. Materials related specifically to building construction and urban planning can also be found in the Fiske Kimball Fine Arts Library.

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## Journal Article Indexes

You may access online journal article indexes from VIRGO by clicking on the “Databases” tab at the top of most VIRGO screens and from the CEE Subject Guide web page. Many CEE journal article databases now include links to full text. Useful CEE journal article databases include:

- ASCE Civil Engineering Database
- CSA/ASCE Civil Engineering Abstracts
- Compendex (aka Engineering Index or Engineering Village)
- Earthquake Engineering Abstracts
- EIS: Digests of Environmental Impact Statements
- Environmental Engineering Abstracts
- Environmental Sciences and Pollution Management
- GeoRef
- Mechanical and Transportation Engineering Abstracts
- Pollution Abstracts

Risk Abstracts  
Scitopia  
TRIS Online and TLCat  
Water Resources Abstracts  
Web of Science (aka Web of Knowledge or Science Citation Index)

There are many other journal article databases available as well, which may contain useful material for civil and environmental engineering topics. Please consult your subject librarian or contact any library Information Desk for assistance.


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### **Accessing Databases from Off-Grounds**

The use of most of the online databases to which the Library subscribes is limited to UVA faculty, staff and students. These databases are “IP-address protected”. If your computer is attached directly to the UVA network, you should be able to access the databases freely—but if you are trying to dial in from home or elsewhere off Grounds, you will need to use the **UVA-Anywhere** service or obtain a proxy server account and install the proxy server software on your machine. Instructions for doing this are located at <http://www.lib.virginia.edu/indexes/authent.html> .

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### **Online Full Text Journals and Conference Proceedings**

An increasing number of journal articles and conference proceedings from recent years are available online. Many—but not all—journals with online access are so noted in VIRGO. If you are looking for a specific online journal and it is not listed in VIRGO, try looking it up using the **Journal Finder: Find@UVA** web page, since many available online journals are not included in VIRGO. Links to specific online articles are often noted in the various journal indexes and can be accessed by clicking on the  button shown as part of the citation. Note that online availability is usually limited to the last 10-15 years at most; older materials will generally be available only in print in the library.

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### **Current Awareness Services**

The BSEL can assist you in setting up profiles with alerting services and publishers that can automatically run saved searches against their journal article databases and periodically E-mail you the results of those searches, tables-of-contents from selected journals, and new issue alerts for selected journals. Many major web search engines now offer similar services, too. Please inquire at any library for further information and assistance.

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## Interlibrary Loan and Document Delivery

The UVA Libraries can, in most cases, obtain from other libraries books and copies of journal articles and other materials not owned locally. Forms for requesting needed items are available in VIRGO by clicking on the “**Requests**” tab at the top of most pages. First-time users of ILL will need to register in order to access the system. ILL is in most cases a free service to all borrowers. The Library Express On-Grounds (LEO) is a service to UVA faculty that delivers library materials to departmental mailboxes. This service is provided to faculty members whether that material is obtained from a UVA library, remote holdings, or via Interlibrary Loans. Graduate students, undergraduates, and staff may designate a library for delivery.

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## Managing Your Citation Collection

The University Library and ITC have jointly purchased a site license to **RefWorks** for UVA. This is a Web-based bibliographic reference manager similar to EndNote and Reference Manager. The program is available at no charge to everyone at UVA at <http://www.refworks.com>. If you are coming from a UVA IP address, you will be allowed to create a user account, which you must have in order to search and store references. RefWorks can search VIRGO and other sites directly and can import data from most major databases. The producers are also willing to create import filters for other databases on request. Additionally, RefWorks can automatically format bibliographies, footnotes, and line notes in any of over 200 styles and can work with MS Word to help you insert these items into your papers on-the-fly. Your RefWorks data is available to you from any computer, anywhere, connected to the Internet. If you leave UVA, you may continue your RefWorks subscription for a modest annual fee. If you need assistance setting up your RefWorks account, ask at any library service desk or see the Education Library’s RefWorks information page at <http://www.lib.virginia.edu/services/refworks.html> . See also the **How to Import Citations from Various Science-Related Databases into RefWorks** for specific tips at [http://www.lib.virginia.edu/science/dbases/RefWorks\\_Grid.doc](http://www.lib.virginia.edu/science/dbases/RefWorks_Grid.doc) .

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## Purchase Requests

Librarians choose the books and other materials for the library collection, in support of the teaching and research needs of the University. In specific cases, the library has established approval plans whereby scholarly titles of major publishers are acquired automatically. You are encouraged to help us build our collections by recommending useful items for our collections. If you would like to recommend purchase of a title, please fill out the form located at <http://www.lib.virginia.edu/purch/purch.html>. It will be forwarded to the appropriate librarian. You may also E-mail your suggestions to the subject librarian for your department. The name of this person is listed near the top of the Civil and Environmental Engineering Subject Guide web page (URL listed at the top of this handout) and at the end of this handout.

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## Patents and Trademarks

The University of Virginia Library is not a patent depository library but we can assist you in locating patent and trademark information and can obtain copies of patents for you, be they from the United States or from foreign countries. See our **Patent and Trademark Information** web page at <http://www.lib.virginia.edu/science/guides/s-patent.htm> for more information or contact the Information Desk in the Brown Science and Engineering Library. The **UVA Patent Foundation Office** is a private not-for-profit corporation that evaluates each of the many inventions generated by the University faculty and employees, protects those inventions which appear to have commercial potential, and then markets and licenses those rights to industry. See their web page at <http://www.uvapf.org/>

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## Standards

Because there are hundreds of thousands of published standards, the Brown Science and Engineering Libraries cannot collect them comprehensively. However, we can help you identify and locate needed standards and obtain them for you on a case-by-case basis. See our **Sources for Scientific Standards** web page at <http://www.lib.virginia.edu/science/guides/s-stand.htm> for more information or contact the Information Desk in the Brown Science and Engineering Library. The library has a collection of ASTM standards and online access to most IEEE standards. Others can be located using the IHS Standards section of the Engineering Village (Compendex) database system or other resources.

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## Technical Reports

We will be happy to assist you in tracking down elusive technical reports and will try to obtain ones that cannot be directly accessed over the Internet. Contact the BSEL Information Desk or your subject librarian for assistance. Or, you can consult our **Technical Reports Subject Guide** web page at <http://www.lib.virginia.edu/science/guides/s-tchrpt.htm> for additional information.

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## In-Person and Online Reference Services

The UVA Libraries always welcome in-person reference inquiries and the BSEL will be happy to have you stop by our Information Desk at your convenience to let us assist you. We also offer both an E-mail reference service and telephone reference service. Call our Information Desk at 924-3628 or E-mail us at [sciref@virginia.edu](mailto:sciref@virginia.edu).

Four online reference resources of particular interest to civil engineers are [ENGnetBASE](#), [ENVIRONetBASE](#), the [Knovel Interactive Library](#), and [Safari Tech Books Online](#). ENGnetBASE is an online collection of several hundred handbooks and reference works published in all areas of engineering by the CRC Press. ENVIRONetBASE is a similar online collection of earth science and

environmental references. The Knovel Library also provides an online collection of handbooks and data sets in many engineering areas. Safari Tech Books Online provides online access to over 1,200 computer programming, IT, web programming, and related books. All the collections are fully searchable and are available from any UVA computer or by using a proxy server or UVAnywhere account.

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### **Course Reserves**

Most UVA libraries allow faculty and class instructors to place materials on reserve for students' use. We can place books, photocopies of journal articles (copyright permitting), and other physical objects on reserve at the Circulation Desk in the BSEL, and we can also assist you in creating electronic copies of items for online reserve via the University's Instructional Toolkit program. If you would like to place items on reserve for one of your classes, please contact Brian Smith in the BSEL at 2-2895 or come by the BSEL Circulation desk for assistance. See <http://www.lib.virginia.edu/reserve/> for details and online submission forms.

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### **Instructional Services**

The UVA Libraries can offer an array of short courses on a wide variety of subjects, including HTML, scanning and digitizing, basic GIS techniques, the basics of the VIRGO catalog, science and engineering databases, and searching the web. Many of these classes are taught in the BSEL electronic classroom, which is located in the Clark Hall Library and which provides our users with opportunities for hands-on learning. We also are particularly interested in working with our faculty and TAs to design classes that support the specific informational needs of their courses, and we are willing to come to your classroom to demonstrate and discuss with you and your students information gathering skills, library research, and related topics. For more information about our instructional program, or to discuss having a BSEL staff member teach a class for your students, please contact your subject librarian or Ms. Kathy Soule, BSEL Coordinator for Outreach and Public Service, at 924-3591.

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### **Research Tutorials**

The Brown Science and Engineering Library provides as a service to UVA science and engineering faculty and students advice and assistance in locating information in the libraries and also individual instruction in the use of online databases and other library resources. This service often takes the form of individualized, one-on-one research tutorials in which you can meet with a librarian to discuss your particular project or information need. To arrange a research tutorial, please use the form located at <http://www.lib.virginia.edu/tutorial.html>

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## **Research Computing Services**

The BSEL **Research Computing Laboratory** is located in the Clark Hall Library. The lab is open to the public and is staffed by trained staff and students, who are available to help you scan both images and text and perform other kinds of text and image manipulation, including GIS and statistical software use. The Lab also offers instruction in the use of digital imaging hardware and software. The Lab also specializes in helping faculty and students who have high-speed and/or massively parallel computational needs locate and use resources. Contact Andrew Sallans at 243-2180 or 243-8789 for more information. For complex digital or imaging services you may also wish to contact Carla Lee, BSEL Coordinator for Collections and Digital Services at 243-2390, or talk with staff in the Digital Media Lab in the Robertson Media Center in Clemons Library at 924-7286 to discuss your specific needs. For more info visit our web page at <http://www.lib.virginia.edu/science/rescomp/>

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## **Group Study Rooms and Carrels**

The Brown Science and Engineering Library contains several group study spaces for your use in preparing presentations, conducting study sessions, working on projects, and other collaborative activities. Six of these rooms may be reserved in advance for up to three hours at a time by telephoning 924-3628 or coming by the BSEL Circulation Desk. Other collaborative work spaces are available on a first-come first-serve basis whenever the library is open. All group study rooms have white boards and/or wall-mounted digital display units, movable chairs and tables, and full internet access. A digital projector is also available for in-house use. Individual study carrels are also available throughout the library. These are not reserved and all have either hardwired or wireless internet access. There is also a variety of traditional seating options located throughout the library.

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## **Coffee Shop and Snack Machines**

A Greenberry's coffee and snack shop is conveniently located adjacent to the Brown Science and Engineering Library on the east side of Mural Hall as you enter Clark Hall. The shop provides a variety of coffee and other beverages, prepared sandwiches and snacks, baked goods, and bottled water. Greenberry's is open from 8 AM until 11 PM Monday through Thursday with reduced hours on weekends. There are also snack and drink vending machines located within the Brown Science and Engineering Library at the west end on the ground floor, available whenever the library is open.

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