Databases, Library Services
Search Hints and Guides

http://www.prism.gatech.edu/~bw21/

Search Hints for Classic Catalog and Databases (Inspec, Compendex and others)

- **Library Catalog** and Catalog Guide and Catalog Search Hints
- Database Search Commands Comparison Chart
- EI Village's **Inspec** and **Compendex** Search Hints (engineering, electrical engineering, optics, physics, computers)
- ProQuest Databases (**NTIS, Aerospace, Materials, ProQuest Dissertations, GeoRef, etc.**)
- Patents: Derwent Innovations Index; Patents Research Guide
- Standards
- Technical Reports
- **Examples of Searches.** Class Presentations (slides)
  - Introduction, Library Home Page, Services and Navigation
  - Library Catalog
  - EI Village's Inspec and Compendex (engineering, physics, electrical engineering, optics, computers)
  - ProQuest Databases (**NTIS, Aerospace, Materials, ProQuest Dissertations, GeoRef, etc.**)
  - Web of Science's Science Citation Index (cited references); BIOSIS, Medline; Derwent Innovations Index (patents)
  - FirstSearch's WorldCat (library catalogs)
  - SciFinder Scholar's Chemical Abstracts
URLs for selected Library databases may change

Have you experienced issues trying to access databases through the Georgia Tech Library website? It is likely due to our recent change to OpenAthens IP Authentication. If you have any access questions or database access problems, please contact ept@library.gatech.edu. This will allow us to establish an issues log and address the access issues systemically. Authentication service information is at http://weblog.library.gatech.edu/news, including changing permanently linked information ("Recent News" - right column: OpenAthens; Experiencing Issues with databases, etc.).

While accessing e-resources off-campus, you may notice an OpenAthens login screen. The OpenAthens screen will ask you to identify your home. Use the "Login via your institution: Other Institution Login" (box, right column of screen) then "Find your organization" to search for Georgia (Georgia Institute of Technology). See examples. From there, use the Georgia Tech login service and you will be given access to the resource.

All Library databases: http://libguides.gatech.edu/az.php
Library home page (left column): "Research Tools" -- "Find Databases"
“Research Tools”
- Library Catalog
- Find Databases
- eJournals
- Course Reserves
- Research Guides

“Services”
- Interlibrary Loan (ILLiad)
RESEARCH TOOLS

- Archives
- Articles
- Bestsellers, DVDs, Newspapers & Magazines
- Books
  - Library Catalog
  - GIL Universal Catalog
  - WorldCAT
  - Popular Materials
  - eBooks
- Citation Linker
- Citation Style Guides
- Conference Proceedings
- Course Reserves
- Databases
- eBooks
- eResource Policies
- Expert Consultation Center

- GALILEO
  - Get GALILEO Password
- Government Information
- Institutional Repository
  - SMARTech Repository
- Journals
- Maps
- Patents & Trademarks
- Research Guides
- Science Fiction Collection
- Standards & Codes
- Technical Papers & Reports
- Theses & Dissertations
  - GT Authors
  - Other Authors
- Tutorials
  - Request Books from LSC
Library Services

“Services”
- Computers & Printing
  - Printing & Scanning
- Copy Services
- Distance Learning

SERVICES

Archives
Ask a Librarian
Borrowing & Requests
  - Borrowing Policies
  - Fines & Fees
  - Library Account
  - Recommend a Purchase
  - Gadgets
  - Digital Cameras & Camcorders
Clough Commons
Computers & Printing
  - Laptops & Accessories
  - Multimedia Studio
  - Printing | Saving | Scanning
Copy Services
  - Digital Camcorder & Camera Lending
Distance Learning
Expert Consultation Center
Faculty Services
  - Data Management
  - Document Delivery (LENS)
  - Instruction Support
  - Linking to Library Resources
  - GT Open Access Policy
  - Scholarly Communication
  - Submitting Reserve Materials

Government Information
Instruction & Research Support
Interlibrary Loan (ILLiad)
Lecture Recording
LENS
  - Pick-up Request
Multimedia Studio
Patents & Trademarks
Records Management
Reference & Research
  - Fee-based Research
  - Research Guides
  - Tutorials
Reserve a Room
  - Clough Breakout Rooms
  - Presentation Rehearsal Rooms
  - Clough Classrooms & Auditoriums
  - Clough Event Spaces
Reserves
  - Search Reserves
  - Submitting Reserve Materials
  - Reserve Guidelines
SMARTech Repository
Subject Librarians
Electronic or Print **Course Reserves**

“**Research Tools**” – “**Course Reserves**”

**Searching for Course Reserves?**
- GT Account:
  - I don't know my GT Account
- Password:

**Submitting Course Reserves?**
- What type of materials are you submitting?
  - Books & Multimedia
  - Journal Articles & Book Chapters
  - Class Materials

**More info? Contact:**
- Course Reserves

Phone: 404-367-0865 (Main Library)
Course Reserves

• **Professors** can request that books (recommended readings for the class, etc.) and other materials be placed on Course Reserves, to make them **available to all students in their classes**

• **Faculty** can submit a purchase request for Course Reserves books

• **Course Reserves** material is located in the Public Services area of the Library

• For Course Reserves questions, call 404-367-0865 (**Reserves**, Main Library)
### Electronic or Print Reserves

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Section Number</th>
<th>Department</th>
<th>Instructor</th>
<th>Term</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE6450</td>
<td>Microelectronics Tech</td>
<td></td>
<td>Electrical and Computer Engineering</td>
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<td>ECE6451</td>
<td>Introduction to the Theory of Microelectronics</td>
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<td>Electrical and Computer Engineering</td>
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<tr>
<td>ECE6500</td>
<td>&amp; Signal Analysis</td>
<td></td>
<td>Electrical and Computer Engineering</td>
<td>Verriest</td>
<td>Fall</td>
<td>2000</td>
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<tr>
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<td>Integrated Optics</td>
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<td>Gaylord</td>
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<td>Optical Modulation</td>
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<td>Linear Systems and Controls</td>
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<td>Verriest</td>
<td>Fall</td>
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<td>Advance Networks</td>
<td></td>
<td>Electrical and Computer Engineering</td>
<td>Ji</td>
<td>Fall</td>
<td>2000</td>
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<tr>
<td>ECE6771</td>
<td>Optoelectronics: Materials, Processes,</td>
<td></td>
<td>Electrical and Computer Engineering</td>
<td>Gaylord</td>
<td>Fall</td>
<td>2000</td>
</tr>
<tr>
<td>ECE8823</td>
<td>Special Topics in Mobile Computing</td>
<td></td>
<td>Electrical and Computer Engineering</td>
<td>Blough</td>
<td>Fall</td>
<td>2000</td>
</tr>
</tbody>
</table>

**Title:** Integrated optics  
**Format:** Web/OPAC Link  
**Size (KB):** -
Interlibrary Loan (ILLiad)

FAQ

http://www.library.gatech.edu/services/ill-faq.php
Interlibrary Loan
http://illiad.library.gatech.edu/

• Interlibrary loan (ILL):
  ➢ Materials **not owned by** the Georgia Tech Library
  ➢ Photocopies and loans of books, theses, articles, conference papers, etc. **from other libraries**

• The Library **subsidizes** interlibrary loan requests **up to $25.00 per item.** You will be notified if charges exceed that amount

• **Most** (but not all) interlibrary loan requests will be free to you

• Use **ILLiad request forms** for all interlibrary loan article PDFs and book loans, and also for PDFs of Georgia Tech Library owned **print articles**
• Fill out an **ILLiad** request form for **each** separate item (book loans and article PDFs)

• **Interlibrary loan** requests may take **1-3 weeks** turn around time (depends upon the lending library)

• Check the Georgia Tech Library **eJournals** list and Library **Catalog** for Georgia Tech Library electronic amd print journal subscriptions
The first time you try to use the ILLiad system, you will be asked to fill out a one-time new user registration form.

When registering the first time with ILLiad, choose
- "Status" -- "Distance Ed" and also
- "Department" -- "Distance Other"
ILLiad request form
https://illiad.library.gatech.edu/

ILLiad FAQ
http://www.library.gatech.edu/services/ill-faq.php
Additional Notes

Put any information in the “Additional Notes” field that may help us find the item, as well as any other pertinent information.

[Copy and paste complete bibliographic information from your Library database record into the “Additional Notes” field, leaving out the abstract, author affiliation, and subject heading fields]

http://illiad.library.gatech.edu/
ILLiad Request Forms
PDFs
http://illiad.library.gatech.edu/

- Check the eJournal list and Catalog for Georgia Tech Library electronic journal subscriptions
- The Georgia Tech Library delivers PDFs of articles (journal and conference papers, brief book chapters):
  - PDF copies of Georgia Tech Library print articles
  - PDF copies of interlibrary loan articles (not owned by the Georgia Tech Library)
- PDF copies are sent directly to the requester’s ILLiad account
Interlibrary Loan. Books or Copies

The first time you try to use the ILLiad system, you will be asked to fill out a one-time new user registration form.

Distance Learning students, faculty, and staff MUST choose Distance Ed as the Status and also the appropriate Distance Ed unit as Department for accurate delivery of materials.
Under “Services” (left column of home page)

Request loans and copies from the Georgia Tech Library and from other libraries.

Center for Distance Learning
Georgia Tech Lorraine
Other Off-Campus
ILLiad request questions
http://illiad.library.gatech.edu/

Contact

• For questions regarding your ILLiad requests contact Interlibrary Loan at
  ➢ **Phone**: 404-367-0427 (or toll free 1-888-225-7804; ask to be transferred to Interlibrary Loan/ILLiad)
  ➢ **Email**: customersupport@library.gatech.edu
“Services” – “Borrow”
“Borrowing from Other Libraries”

Interlibrary Loan (ILLiad) FAQ [http://www.library.gatech.edu/services/ill-faq.php](http://www.library.gatech.edu/services/ill-faq.php)

**Borrowing from other libraries...**
Current Georgia Tech students, faculty, and staff may borrow from the Emory’s Library Service Center collection by either visiting the LSC in person (make arrangements ahead of time) or placing a request through the library catalog for delivery to the GT campus.

Current students, faculty, and staff may also use their Buzzcard to borrow from Emory’s Woodruff Library and any library in the [University System of Georgia](http://www.library.gatech.edu/services/ill-faq.php) schools in person (check with the library for their visitor hours and restrictions).

Several other Metro-Atlanta College libraries allow in person borrowing of their materials to GT students, faculty, and staff, you must use an InterLibrary Use card, obtained at our Public Services. This card works at: Agnes Scott College, Atlanta University Center, Brenau University, Columbia Theological Seminary, Emory University (branch libraries), Mercer University (Atlanta Campus), Morehouse School of Medicine, Oglethorpe University, Savannah College of Art and Design-Atlanta. Check with their library for their visitor hours and restrictions.
Interlibrary Loan (ILLiad) FAQ
[http://www.library.gatech.edu/services/ill-faq.php](http://www.library.gatech.edu/services/ill-faq.php)

- Interlibrary loan is a service provided to request materials (ie: books, journal articles, research papers, etc.) not owned by your home Library from other libraries. ILLiad is the online interface you use to place your requests.

- At Georgia Tech, this system is also used to place scan requests for items held at the Library Service Center. For delivery of physical books/items from the Library Service Center, please place requests through the GT online catalog, not ILLiad.

- Many items are available for free. The GT Library subsidizes up to $25 per item on your behalf. Any fees in excess of this amount are your responsibility. If there is a fee, you will be notified prior to the staff placing the final order.
“Research Tools” -- “Research Guides”
http://libguides.gatech.edu/
By Subject or GT School/College

- General
- About the Library
- Aerospace Engineering
- Applied Physiology
- Architecture and Fine Arts
- Archives and Records Management
- Biology
- Biomedical Engineering
- Business and Management
- Chemical and Biomolecular Engineering
- Chemistry and Biochemistry
- City Planning
- Civil Engineering
- Computer Science
- Conference Proceedings
- Earth and Atmospheric Sciences
- Economics
- Education
- Electrical and Computer Engineering
- Environment
- Government Information
- GTRI
- History
- Industrial and Systems Engineering
- Industrial Design
- International Affairs
- Literature, Media and Communication (LMC)
- Maps and Geospatial Data
- Materials Science and Engineering
- Mathematics
- Mechanical and Nuclear Engineering
- Modern Languages
- Music
- Patents & Trademarks
- Physics
- Psychology and Cognitive Sciences
- Public Policy
- Scholarly Communication & Open Access
- Sociology
- Standards
- Statistics
- Technical Reports
“Research Guides” are organized By Subject, By Type, All Guides
http://libguides.gatech.edu/
Electrical and Computer Engineering Guide

http://libguides.gatech.edu/ece

ECE Databases, Hints, Services

For one-on-one in-depth and quick Library database search assistance, and customized group sessions for your courses, lab groups or project groups. Group instruction can be in your laboratory, conference room, or classroom, or in the Library’s classroom.

Contact: Bette Finn, ECE Subject Librarian, Georgia Tech Library
Phone: 404-894-1790. Email: bette.finn@library.gatech.edu

- ECE Databases, by Subject (in-depth descriptions, arranged by research topic)
- ECE Databases, Alphabetical List
- ECE Database Search Hints and Examples
- Database Tutorials
- Customized alerts are available in most Library subscription databases
- Library Services for Students (circulation, book recalls, book locates, course reserves, printing, scanning, interlibrary loan,

ECE DATABASE LIST (CORE AND RELATED)

- Catalog - GT Catalog, Georgia Tech Library’s online catalog
- Inspec (electrical engineering, computer engineering, physics)
- Compendex - engineering. Combine with Inspec (electrical and
- Aerospace
- Applied Science
- BIOSIS Current Awareness
- Business
- CRCnetBase
- Dergnet

Other Resources

- Dissertations and Theses
- Technical Reports
- Standards and Specifications
- Patents
- Interlibrary Loan (students and faculty/staff)
- Faculty/Staff Document Delivery, In-House & ILL
- Linking to Library resources. Proxy Bookmark, LinkMaker
- Services for ECE students
- Electronic Handbooks
- Databases
- Course Reserves
- Citation Style Guides and Writing
- Bibliographic Management Tools (and other tools, such as EndNote)
- Associations and Societies
Databases [http://libguides.gatech.edu/az.php](http://libguides.gatech.edu/az.php)

"Research Tools" --

"Find Databases"

- By Subject
- A-Z, Alphabetical
Off-campus: Need the proxy server URL or VPN

- Remote access to campus resources
  - Virtual Private Network (VPN)
  - How do I get started with the Campus VPN? Access my information remotely via VPN
  - Download software

- Linking to Library Resources. LinkMaker
**Off-campus** (not using VPN)
Begin at Library home page
Will be asked for
GT user name and password

- If you are **off-campus** (and are not using VPN) you must **begin** at the **Library’s home page** at [http://www.library.gatech.edu](http://www.library.gatech.edu) (Catalog, Databases, eJournals) in order to initiate the **proxy server**
- **OIT (Office of Information Technology)**
- **Passport** offers tools for GT Account such as email aliasing
Linking to Library Resources

Add GT Proxy Bookmark

LinkMaker:  http://www.library.gatech.edu/services/linking.php
Scholarly Communication and Digital Curation

- Scholarly Communication and Digital Curation services and contact information
- Research Data Management
- Data Management Plan
- Access policies for data
- SMARTech repository
- Copyright and Fair Use
- Scholarly Communication Guide (P. Kenly)
Research Tools

Research Guides

- The Research Process
- Research/Writing/Citing Sources
- Citation Styles, Tutorials, and Tools
- EndNote
Primo “Everything” or “Articles” does not search our specialized databases.

Library home page (top row) Box searches “Everything”

Some databases are right on target, whereas other very relevant databases have not been searched and relevant records will be missed.

Search the other vendor databases separately such as combined Inspec/Compendex and Web of Science.
Search Hints

http://www.prism.gatech.edu/~bw21/chart.htm

- Native databases provide records of publications not available in Primo “Everything”/“Articles” searches
- Native databases such as Engineering Village Compendex/Inspec, ProQuest databases (NTIS, Aerospace, etc.), and Web of Science databases provide powerful search software:
  - Complex searches using nested **Boolean** operators (AND OR NOT)
  - **Combine multiple search statements** (Search history, Recent searches). Recombine using statement numbers and keywords
  - **Proximity operators**, such as **NEAR/#** (within # words, in any order) or **quotes** (“exact phrase”)
  - **Truncation** (often * asterisk), wildcards
  - **Limit to Title/Subject** headings fields, **Author**, etc.
  - **Avoid searching full text** fields (ProQuest – use “NOFT”)
  - **Combine multiple databases** together into one search
- Most databases have tutorials, often vendor supplied. Look for “Help” or “Support” or “?” or “Search Tips”
E-books at Georgia Tech

http://libguides.gatech.edu/ebooks

- Overview
- Ebooks Use Cheat Sheet
Lynda [http://lynda.gatech.edu/](http://lynda.gatech.edu/) Lynda teaches the latest software tools and skills through instructional videos taught by experts. Georgia Tech provides unlimited access to lynda.com for all faculty, staff, and students.

**Library classes** (EndNote, patents, multimedia, and more) [http://library.gatech.edu/calendar/libcalendar.php](http://library.gatech.edu/calendar/libcalendar.php)

You can sign in to lynda.com using the method at the bottom of the section below!

Lynda is an online subscription library that teaches the latest software tools and skills taught by industry experts. Georgia Tech is now providing unlimited access to lynda.com for all faculty, staff, and students. To learn more, we suggest that you watch this introductory video about the service, and watch the course.

As an employee and/or student here, you have unlimited access to lynda.com, an online library of high-quality instructional videos on the latest software tools and skills.

With more than 1,100 courses taught by industry experts—and more added every week—lynda.com is designed for all levels of learners and is available whenever you’re ready to learn. You can even view it on your iPhone or iPad.

Some of the most popular courses here include:

- AutoCAD Essentials 2: Drawing Fundamentals
- Animation Tips and Tricks with Flash Professional
- Dreamweaver with PHP and MySQL

Check out the lynda.com latest releases and most viewed courses in 3D and animation, audio, business, design, developer, photography, video and web and interactive.

We also recommend you watch the *How to use lynda.com* video.

Access to your lynda.com account can only be done from this website. You will not be able to access lynda.com using your Georgia Tech account directly through the lynda.com website!
We welcome your feedback and suggestions!
Library home page -- top of screen (right side)

Feedback
http://www.library.gatech.edu/about/contact.php
Assistance searching the Library’s Databases

• For **ECE and GTRI** one-on-one **in-depth and quick** database search assistance and group instruction, please **contact Bette Finn** ([bette.finn@library.gatech.edu](mailto:bette.finn@library.gatech.edu))

• For other schools, contact your **Subject Librarian** for assistance searching any of the Library’s **databases**. Every school has a Subject Librarian ([http://www.library.gatech.edu/services/subject_librarians.php](http://www.library.gatech.edu/services/subject_librarians.php)).

• For circulation questions (check-out, recalls, etc.) – contact the Public Services area in the library, phone 404-894-4530

• [All Research guides](#)
• [All Databases](#)