ProQuest

NTIS (technical reports)
ProQuest Dissertations & Theses
Advanced Technologies & Aerospace
Materials Science & Engineering

and many more databases
ProQuest Databases

- **NTIS** (research reports); **Advanced Technologies & Aerospace; Materials** Science and Engineering; **ProQuest Dissertations** and Theses (many full text dissertations); **ABI/INFORM** (business and management); **GeoRef** (geophysics); **PAIS** (public affairs), and many other ProQuest databases

- **Advanced**
  - Advanced Search
  - “Command Line Search”
    - Command Line -- “Add Search Fields” such as **Authors** -- “Look up Authors” (author name format differs by database)

Library Search Hints & Guides [http://www.prism.gatech.edu/~bw21/](http://www.prism.gatech.edu/~bw21/)
Search **multiple** ProQuest databases at one time, removing duplicates.

- **“Change Databases”** (top row, right side)
- **Check boxes** for **relevant** databases (NTIS, Aerospace, etc.)
- **“Use selected databases”**
ProQuest Databases – Use “NOFT”

Limit with “NOFT” to bibliographic record keywords (“Anywhere except full text”). Advanced or Basic Search

- Advanced search – drop down menu choice “Anywhere except full text - NOFT”
- Basic search – NOFT(electrooptic* near/10 holograph*)
- ti, su, ab(radar and model*) and au(smith)
ProQuest Databases

• **Thesaurus** – thesauri are database-specific. Thesaurus terms **differ** from database to database

• “View Field Codes Help”
  - **TI** *(title* keywords)*
  - **SU** “Look up **Subjects**” *(thesaurus terms **differ by database**)*
  - **AU** *(author names)*
    - “**Look up Authors**” – author name format differs by database (initials or full first name, etc.)
ProQuest Databases

- **AB**(abstract)
- **Multiple fields**: **TI**, **SU**(model* and simulat*) or **ti,ab,su**(robot* and model*)
- **Advanced search**, use drop down menu choice "Anywhere except full text – NOFT” to search all bibliographic fields, but does **not** search the full text field
  
  NOFT(microwave* and simulat*)
- **IF**(keywords identifiers); may not limit correctly
ProQuest Databases

• “Search tips.”
  - **Exact phrase “quotations”**
  - **Truncate with asterisk (*)**
    - Truncation is allowed when using the near/n or pre/n proximity operator. Truncation character (*) - one * for many characters
    - Use the truncation character at the beginning (left-hand truncation), the end (right-hand truncation), or in the middle of search terms
    - nurse*  color*  *old (use left-hand truncation sparingly)
    - Single character only: nurse?  sm?th.  nutr$5
  
• Examples:
  - (radar or antenna*) **near/ 2** (infrared)
  - **TI ,SU**(cryptolog* and “VLSI”’) and **AU**(sherman)
  - YR(2005-2009)
ProQuest Databases

• “Search tips.”
  ▪ **near/ #** -- two search terms, in any order, within “#” number of words apart
  ▪ (radar or antenna*) **near/ 2** (infrared)
  ▪ all(radar **near/ 3** "signal processing")
  ▪ **pre/ #** -- one search term that appears within “#” number of words before a second term (in this order)

• Search **multiple databases at the same time** - (top row) “Change databases” -- then check only the relevant database boxes
ProQuest Databases

• **“Recent searches”** – is to the right of **“Advanced Search”** or the first icon, top right of screen. Now combine searches.
  - **“Combine searches”** – combine previous searches
    - (1 AND 3) or (“6”)
    - (1 AND 3) OR (1 AND 2)
    - 3 NOT treatment

Library Search Hints and Guides [http://www.prism.gatech.edu/~bw21/](http://www.prism.gatech.edu/~bw21/)
“Recent Searches” – combine previous search statements

- **Icons** top row, right:
  - "Recent Searches"
  - "Selected Items"
  - "My Research"

- "Advanced Search"--"Recent Searches"
  - (1 and (3 or 6)) and treat*
“ProQuest Dissertations & Theses A&I”

- **Very few** new Georgia Tech PhD dissertations are likely to be added to ProQuest Dissertations & Theses **after fall 2012**
- Use ProQuest drop down menu in Advanced search and select "Anywhere except full text - NOFT" does not search full text fields
- Search the [Library Catalog](#) for Georgia Tech doctoral dissertations and masters theses, using the Catalog Advanced Search, the "Search Scope" drop down menu (top right) choice "Library Catalog” or "GT Theses & Dissertations“ (both link)

- Advanced Technologies & Aerospace Database (1962 - current)
- GeoRef (1693 - current)
- Materials Science & Engineering Database (1965 - current)
- NTIS Database (National Technical Information Service, reports) (1964 - current)
- ProQuest Dissertations & Theses (1861 – current)
- Agricultural & Environmental Science Database (1960 – current)
• Do **NOT** “Limit to” “Peer Reviewed” or “Full Text”

• Technical reports and conferences are scholarly but are **not** peer reviewed journals

• **NTIS** records are technical reports records (NTIS reports are **not** peer reviewed and are **not** full text)

• **Advanced.. Aerospace, Materials** and **GeoRef** databases index technical reports and conferences (which are **not** peer reviewed)

• **ProQuest Dissertations and Theses** includes only dissertations or theses, not journals (are **not** peer reviewed)

• Do **NOT** check the “Full Text” box. NTIS, Aerospace, Materials, Georef can **not** limit to full text (they are *index* databases)

• Checking the boxes for “Peer Reviewed” or “Full Text” **eliminates** large numbers of relevant publications
ProQuest Databases

• “Sort results by:” “publication date (most recent first)”. The default is sort by relevance
• “Items per page:” (set to 100)
• “Date Range:”
• Use abstract or full format. The NTIS “results” brief format currently does not contain the needed technical report number (AD#, DE#, N#, PB#, etc.).

• Full format often contains detailed conference information not given in the brief format.
• To print, save, email, or export, choose full format or “citation, abstract, indexing” (not brief citation format)
“Find It @ GT”
- Will **NOT** work for technical reports (NTIS and Aerospace databases)
- Will **NOT** work for most conference papers
- **Will** work for most (but not all) journal articles (Materials, Aerospace, etc.)

"My Research" -- Save, manage, and organize the content and supporting materials, such as Alerts or Saved searches or saved records
Selected ProQuest Databases

- **NTIS** 1964+ U.S. federally funded technical research reports. Most full reports are available either in *microfiche* or available *electronically* (nearly all are not in the GT Library Catalog)
- **Advanced Technologies & Aerospace Database** 1962+ journals, conferences, technical reports
- **Materials** Science and Engineering 1965+ metals and materials journals, conference, reports
- **GeoRef** 1693+ geoscience journals, books, maps, conferences, reports and theses
Dissertations & Theses

- **ProQuest Dissertations & Theses** 1861+ U.S doctoral dissertations; selected masters theses and selected Canadian & European; selected dissertations back to 1639.
- Most ProQuest Dissertations 1980+ records have *lengthy abstracts*, and *many* 1997+ are *full text*. 
Dissertations & Theses

• **Very few new Georgia Tech doctoral** dissertations have been added to ProQuest Dissertations & Theses after fall 2012.

• Georgia Tech doctoral students may elect to submit their dissertations to ProQuest Dissertation Abstracts for processing and distribution. Authors choosing this option may access the ProQuest Dissertation Publishing – Authors site for more information or to obtain the appropriate agreement form.

• Authors can also reach ProQuest Dissertation Publishing at 1-800-521-0600 or at disspub@proquest.com.

• **How much does it cost to submit my dissertation to ProQuest?**
• Check the GT [Library Catalog](#) for [Georgia Tech doctoral dissertations and masters theses](#). Library Catalog records link Georgia Tech theses to full text [SMARTech](#) repository records. A few records may be in the Library Catalog that are missing from “Search Scope: GT Theses & Dissertations” subset of the Catalog.

• [WorldCat](#). Galileo database. Indexes bibliographic records of books and other types of materials catalogued by OCLC libraries worldwide.
  - Includes [master](#) theses and [doctoral](#) dissertations.
  - Few [Georgia Tech](#) student dissertations and theses have been added to [WorldCat](#) since 2014.
  - WorldCat Dissertations and Theses (OCLC) database is a [subset](#) of the larger WorldCat database. Borrow many through [Interlibrary Loan (ILLiad)](#) request form.
- Field searching - AU (Look up Authors), SU (Look up Subjects), "Anywhere except full text - NOFT"
- "Thesaurus" - Thesaurus terms differ from database to database
- Can search multiple fields, such as ti,su(xxxxx) and au(smith)

- Do NOT "Limit to" "Full Text" or "Peer Reviewed" – large numbers of relevant records are not retrieved if boxes are checked
- "Sort Results by:" "Publication date (most recent first)" – default is sort by relevance
- "Items per page:" (set to 100)
New Georgia Tech doctoral dissertations after fall 2012

- Very few new Georgia Tech dissertations are likely to be added to the ProQuest Dissertations and Theses database after fall 2012.

- Note: ProQuest Dissertations and Theses database is the world’s most comprehensive collection of dissertations and theses, spanning from 1861 - present (selected 1639+)

- SMARTech and the Georgia Tech Library Catalog include links to full text Georgia Tech dissertations and theses (before and after 2012)

- WorldCat Dissertations and Theses indexed Georgia Tech dissertations and theses up to 2014. This is a subset of the WorldCat OCLC (worldwide library catalogs) database. For GT theses, check the Library Catalog (which links to SMARTech GT Theses records)
Georgia Tech doctoral dissertations after fall 2012
See -- Theses & Dissertations by GT Authors
http://www.library.gatech.edu/search/theses_gt.php

• Doctoral students may elect to submit their dissertations to ProQuest for processing and distribution. Authors choosing this option may contact ProQuest for more information or to obtain the appropriate agreement form. Authors can also reach ProQuest Dissertation Publishing at disspub@proquest.com

• Very few Georgia Tech dissertations are indexed in the ProQuest Dissertations & Theses database after fall 2012. For full text, see the GT Library Catalog (Advanced Search, “Search Scope:” “Library Catalog” or “GT Theses and Dissertations”) which links to SMARTech
We own technical report# ADA175853

Top right, choose “Recent searches” -- “Combine searches”

Open a Word file and keep track of your search statement lines

“My Research” Alerts and Saved Searches and Saved Records

NTIS technical reports 1964+
(no report number in brief format)

ProQuest Dissertations and Theses 1861+
“Recent Searches”
For combining previous searches

Advanced Search

Recent searches

Combine searches: 1 AND 2

Examples: 1 AND 3 or "6"
         (1 AND 3) OR (1 AND 2)
         3 NOT treatment
**NTIS 1964+**

- Federally sponsored technical research reports, 1964+
- NTIS indexes masters theses, doctoral dissertations etc.
- Check NTIS before interlibrary loan. Try searching author last name and important keywords from the title
- Technical reports are not indexed by most other Library databases
- NTIS does not have an author affiliation field, although the institutional/agency performer may be listed
Library’s Technical Report Collection

• Fill out an ILLiad request form for each NTIS indexed technical report
• Be sure to indicate in the ILLiad “Notes” field “from the NTIS database”
• Selected reports are full text electronic. Selected full text reports: Dept of Energy/DOE, Dept of Defense/DTIC; NASA/NACA; NTRL, etc.
• The Georgia Tech Library owns over 2,500,000 microfiche technical reports (in LSC remote storage)
Cryptology and VLSI (Very Large Scale Integration). I. Detecting and Exploiting Algebraic Weaknesses in Cryptosystems. II. Algorithms for Placing Modules on a Custom VLSI Chip


Do NOT use "Find IT @ GT" in NTIS. Nearly all reports are not in the Catalog ("Find It@GT" searches the Catalog)

This dissertation describes two separate and independent investigations in cryptology and VLSI. Part I explores relationships between algebraic and security properties of cryptosystems, focusing on finite, deterministic cryptosystems whose encryption transformations form a group under functional composition. Part II explores the problem of automatically placing modules on a custom VLSI chip, focusing on the placement heuristics used in the MIT PI (Placement and Interconnect) System.

Indexing (details)

Cryptography, Chips(Electronics), Systems engineering, Algebra, Algorithms, Combinatorial analysis, Computations, Heuristic methods, Optimization, Security, Theory, Transformations


Contract N00014-80-C-0622, Data encryption, Computer security, Very large scale integration, Very Large Scale Integration, DES(Data Encryption Standard), Theses, PI(Placement and Interconnect)
Some records have an extra check digit ("1" at the end of the number). The actual report# is ADA175853
First search the **thesis** in **ProQuest Dissertations and Theses**. Also search **NTIS** to see if it is a technical report; if not, fill out an **ILLiad request form** (the report may be in our LSC microfiche collection). Put in **ILLiad “Notes”** field – from **NTIS** database
NTIS. GT owns **entire conferences**, **not** individual papers. Reports are identified by the report no. -- See “**Availability**” “**Order as**” – here use conference report # **N92-33309**

A modified version of the Satellite Solar Power System (SPS) is proposed. The original SPS was conceived by Dr. Peter Glaser of MIT in 1968, as a series of large, photovoltaic solar collectors orbiting at geosynchronous altitude, and converting and beaming the collected solar power to the earth surface using microwave energy (which can pass through cloud cover). This system has been studied extensively in the past. The modified version of the SPS will make use of the moon as the 'satellite'.

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<th>Indexing (details)</th>
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<tbody>
<tr>
<td><strong>Subjects</strong></td>
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<td>Lunar bases, Microwave power beaming, Solar arrays, Solar collectors, Lunar surface, Solar power satellites, Cloud cover, Earth surface, Microwave equipment, Rectennas</td>
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<td><strong>Title</strong></td>
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<td>Moon as a Solar Power Satellite</td>
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<td><strong>Authors</strong></td>
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<td>Falbel, G</td>
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<tr>
<td><strong>Publication title</strong></td>
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The “Results listing only” (brief format) does not contain the technical report number.

To locate the NTIS report, the Technical Report number (ADA#, N#, DE#, etc.) is needed. This is not the “contract number.”

Full Format (citation, abstract, indexing) has technical report number and full conference information.

Email – full format “citation, abstract, indexing” -- contains technical report number. Shortest format does not contain the number.
Free Proquest registration

- Create my research account (free registration)
- Sign into my research account
- Save search statement lines (can recombine statements later; keep track of strategy with Word file or notes)
- Create alerts
- Save records to folders
- Set preferences (100 records per page, databases, sort)

and more
The following **thesauri** are available for your currently selected database(s). Note that many thesauri are **database-specific**, and may limit your search results to documents from those databases.

- **Thesaurus** – database specific
- **“Broader Terms”**
- **“Related Terms”**

- Use **synonyms** in your search, such as `simulat*` or `model*` or `algorithm*` or mathematical
ProQuest Search tips

Successful searching is largely about being precise. The tips, techniques, and information here can help you search with precision and find what you need.

Basics
How ProQuest interprets your search
Operators, fields, and special characters
   Operator precedence
Search fields
Wildcards and truncation
Subject searching

Looking for field code lists?

Search syntax and field codes > Search Tips
Other databases

• **ABI/Inform** (ProQuest). 1971+ Business and management science journals, newsletters, etc. About half full text

• Excellent **Business and Management**, Company, Industry Research Guides by Patricia Kenly

• General databases: **ProQuest Central**

• **PAIS** (Proquest) public affairs

• **Newspapers** (many are ProQuest newspapers)
Top Right: (1) Search tips; (2) ProQuest Platform Training videos; (3) LibGuides
OpenAthens Database Authentication

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" or "Find your institution" to search for Georgia or Georgia Tech or Georgia Institute (Georgia Institute of Technology or Georgia Tech); the OpenAthens list may not be alphabetical. See example. From there, use the Georgia Tech login service and you will be given access to the resource.

If you see a different screen, you may need to look for sign in or login links, usually at the top; you might be asked to select your Federation, which is OpenAthens Federation or Open Athens Federation.

Learn about the Library's OpenAthens Authentication service at OpenAthens Frequently Asked Questions or OpenAthens FAQ. See examples.

Begin at the Library home page, choosing Databases, Journals (e-Journals), or the Library Catalog. A list of all databases is at http://libguides.gatech.edu/az.php (top row "Find, Borrow, Request" - "Find Materials" "Databases" then search by database name in the search box, or search the database name alphabetically or by subject). For one-on-one quick and in-depth database search assistance: contact Bette Finn at bette.finn@library.gatech.edu. If you have database access questions or problems, please contact ept@library.gatech.edu.
Assistance searching the Library’s Databases

• For **ECE and GTRI and PMASE** 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 GT school has a Subject Librarian

• For circulation questions (check-out books, Recalls, etc.) – contact an associate in the Public Services area (Crosland Tower, Grove Level Ground Floor, Library Store) or phone 404-894-4530

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